

METALAIRE®

PRE-FLITE

PRODUCT OVERVIEW CATALOG

The METALAIRE Pre-Flite catalog is a condensed reference guide containing concise listings of our entire product line including grilles, registers, diffusers, and air terminal units. This catalog can be used to help select the type of device, along with available border styles. The catalog includes photos of each model along with the features and model guide, a great tool when you are trying to select a device for your project.

Revised: July 27, 2006



At METALAIRE®, we continually work to improve our products. Product descriptions, dimensions, and performance are subject to change without notice. For the most current available literature visit our web page at www.metalaire.com. Contact your local METALAIRE® representative to verify product or performance details.

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BERG



**ROUND
CEILING DIFFUSERS**



Model 900

Fixed Round Diffusers - Aluminum - Multi-Cone - Model 900

- ★ Economical high performance diffuser
- ★ Damper available (900D)



Model 3000

(Flush Face Shown)

Adjustable Round Diffusers - Aluminum - 3-Cone - Series 3000

- ★ High induction/capacity 3 cone adjustable diffuser
- ★ Fully adjustable from horizontal to vertical discharge
- ★ Low profile flush face or dropped face designs are available

Adjustable	
3000-1	Flush
3000-2	Dropped



Model 3100

(Flush Face Shown)

Series 3100 - Aluminum
Series 3100S - Steel

Fixed/Adjustable Round Diffusers - Aluminum/Steel - Multi-Cone - Series 3100

- ★ High induction/capacity 2 cone diffuser
- ★ Can be adjusted for vertical or horizontal discharge
- ★ Low profile flush face or dropped face designs are available

	Aluminum		Steel	
Adjustable	3100A-1 Flush	3100A-2 Dropped	3100S-A-1 Flush	3100S-A-2 Dropped
Fixed	3100-1 Flush	3100-2 Dropped	3100S-1 Flush	3100S-2 Dropped



Model 3200

Adjustable Round Diffusers - Steel - Model 3200

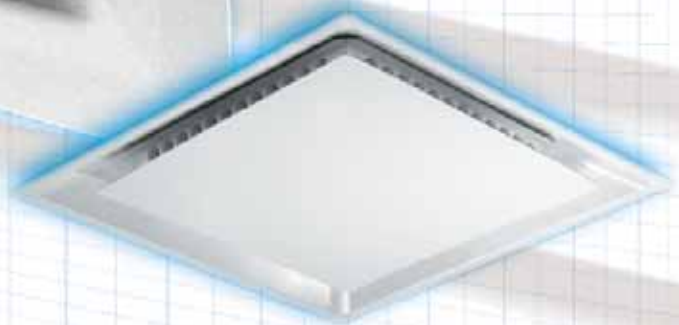
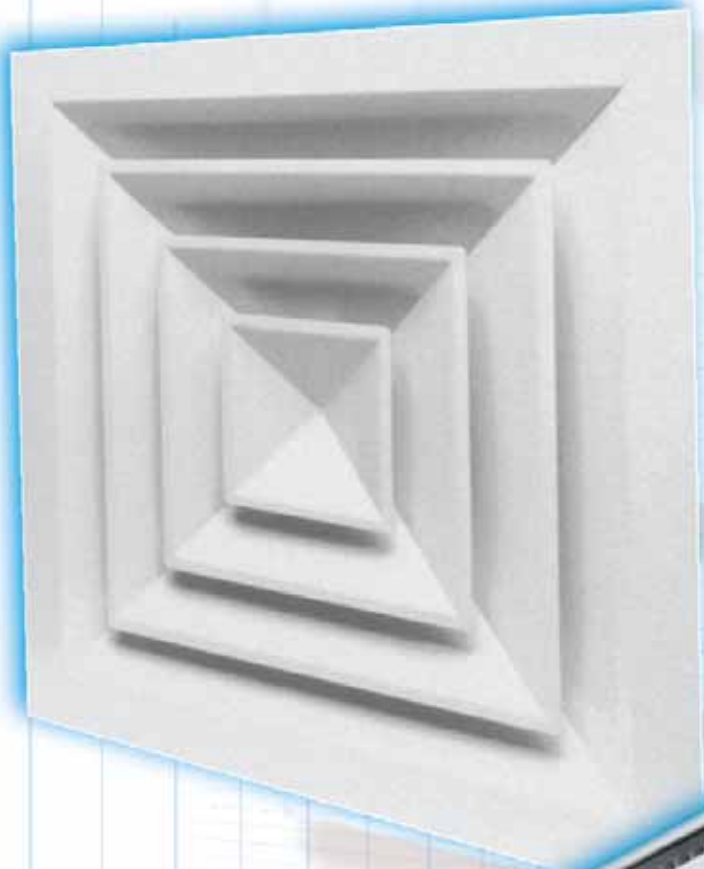
- ★ Excellent choice for high capacity applications such as factories, gymnasiums, theaters, and convention halls
- ★ Discharge pattern is easily adjusted from vertical to horizontal with adjustment ring
- ★ Diffuser can effectively be applied for either spot heating or cooling
- ★ In the horizontal setting the unit provides tight ceiling patterns excellent for VAV applications
- ★ Outer cone design guards against ceiling smudging in horizontal position



Model R5750

Adjustable Round Architectural Ceiling Diffuser - Steel - Model R5750

- ★ Architectural pleasing round diffuser blends well into the ceiling surface
- ★ Fixed horizontal throw pattern
- ★ Designed for surface mounting applications
- ★ Excellent in both heating and cooling applications
- ★ The R5750 is an excellent choice for VAV applications



**DIRECTIONAL
CEILING DIFFUSERS**



Model 5000

Aluminum

(Border 1
Surface Mount Shown)



Straight Lip

Square/Rectangular Louver Face Ceiling Diffusers - Aluminum - Series 5000

- Available in 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way directional air patterns
- Cores are easy to remove with spring loaded latches — no tools required
- Series 5000 deflector blades are straight and do not include a horizontal lip, making this diffuser an excellent choice for high capacity applications
- The series 5000 is an excellent choice for VAV applications
- The series 5000 is available with optional induction vanes

Available Border Styles	
5000-1 Surface Mount	5000-6 T-bar Lay-in
5000-2 V-Beveled Drop Surface Mounting	5000-7 Concealed T-bar
5000-4 Drop Face Surface Mount	5000-8 Tegular T-bar
5000-46 Drop Face T-bar Lay-in	5000-9 Donn Finline



Model 5500

Aluminum

(Border 6
T-bar Lay-in Shown)



Horizontal Lip

Square/Rectangular Louver Face Ceiling Diffusers - Aluminum - Series 5500

- Available in 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way directional air patterns
- Cores are easy to remove with spring loaded latches — no tools required
- Series 5500 deflector blades include a horizontal lip, making this diffuser an excellent choice for high induction applications
- The series 5500 is an excellent choice for VAV applications
- The series 5500 is available with optional induction vanes

Available Border Styles	
5500-1 Surface Mount	5500-6 T-bar Lay-in
5500-2 V-Beveled Drop Surface Mounting	5500-7 Concealed T-bar
5500-4 Drop Face Surface Mount	5500-8 Tegular T-bar
5500-46 Drop Face T-bar Lay-in	5500-9 Donn Finline



Model 5500S

Steel

(Border 6
T-bar Lay-in Shown)



Horizontal Lip

Square/Rectangular Louver Face Ceiling Diffusers - Steel - Series 5500S

- Available in 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way directional air patterns
- Cores are easy to remove with spring loaded latches — no tools required
- Series 5500S deflector blades include a horizontal lip, making this diffuser an excellent choice for high induction applications
- The series 5500S is an excellent choice for VAV applications
- The series 5500S is also available with optional induction vanes.

Available Border Styles	
5500S-1 Surface Mount	5500SR-1 Flush Mount w/Integral Round Neck
5500S-2 V-Beveled Drop Surface Mounting	5500SR-2 V-Beveled Drop Surface Mounting - Round Neck
5500S-6 T-bar Lay-in	5500SR-6 T-bar Lay-in w/Integral Round Neck
5500S-8 Tegular T-bar	5500SR-8 Tegular T-bar - Round Neck
5500S-9 Donn Finline	5500SR-9 Donn Finline - Round Neck



Model 5200

Square/Rectangular Diffusers - Economical Square Diffusers - Aluminum - Series 5200

- Removable core for concealed mounting
- Optional built-in opposed blade damper
- Available in 1 way, 2 way opposite, 2 way corner, 3 way, and 4 way directional air patterns

Available Border Styles
5200-1 Surface Mount
5200-2 Beveled Drop Surface Mounting
5200-6 T-bar Lay-in

DCD - Directional Ceiling Diffusers



Model 5700

Series 5700 - Fixed
Series 5700A - Adjustable

Square Face Diffusers - Round Neck 2-Cone - Steel/Aluminum/Aluminized Steel Adjustable/Non-Adjustable - Series 5700

- ★ The series 5700 provides a tight horizontal 360° discharge pattern for superior induction and occupant comfort
- ★ Series 5700 can be converted in the field to a 3 cone diffuser with the addition of the optional Snap-58
- ★ Lay-in border designed to be installed in standard 15/16" wide tees
- ★ T-bar Lay-in border 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ Cores are easy to remove without tools
- ★ The series 5700 is an excellent choice for VAV applications

Steel	Aluminized Steel	Aluminum	Adjustable/Steel	Adjustable/Aluminized Steel	Adjustable/Aluminum
5700-1 Surface Mount	5700-1 AS Surface Mount	5700-1 AL Surface Mount	5700A-1 Surface Mount	5700A-1 AS Surface Mount	
5700-6 T-bar Lay-in	5700-6 AS T-bar Lay-in	5700-6 AL T-bar Lay-in	5700A-6 T-bar Lay-in	5700A-6 AS T-bar Lay-in	5700A-6 AL T-bar Lay-in
5700-6P T-bar Lay-in Panel			5700A-7 Concealed T-bar	5700A-7 AS Concealed T-bar	
5700-7 Concealed T-bar	5700-7 AS Concealed T-bar				
5700-9 Donn Finline	5700-9 AS Donn Finline				
Metric/Steel	Metric/Aluminized Steel	Metric/Aluminum			
M5700-6 T-bar Lay-in 600mm x 600mm	M5700-6 AS T-bar Lay-in 600mm x 600mm	M5700-6 AL T-bar Lay-in 600mm x 600mm			



Model 5750

Square Panel Face Diffusers - Round Neck - Uni-Flo - Steel/Aluminized Steel - Series 5750

- ★ Attractive single panel design blends well with all ceilings
- ★ The series 5750 provides a tight 360° discharge pattern for superior induction and occupant comfort
- ★ T-bar Lay-in border type 6 designed to be installed in standard 15/16" wide tees
- ★ Border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ Face panel is easy to remove without tools
- ★ The series 5750 is an excellent choice for VAV applications

Steel	Aluminized Steel	Metric/Steel	Metric/Aluminized Steel
5750-1 Surface Mount	5750-1 AS Surface Mount	M5750-6 T-bar Lay-in - 600mm x 600mm	M5750-6 AS T-bar Lay-in - 600mm x 600mm
5750-6 T-bar Lay-in	5750-6 AS T-bar Lay-in		
5750-7 Concealed T-bar	5750-7 AS Concealed T-bar		
5750-9 Donn Finline	5750-9 AS Donn Finline		



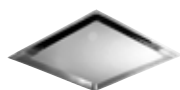
Model 5800

Series 5800 - Fixed
Series 5800A - Adjustable

Square Face Diffusers - Round Neck 3-Cone - Steel/Aluminum/Aluminized Steel Adjustable/Non-Adjustable - Series 5800

- ★ The series 5800 provides a tight 360° discharge pattern for superior induction and occupant comfort
- ★ T-bar Lay-in border type 6 is designed to be installed in standard 15/16" wide tees
- ★ border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ Cores are easy to remove without tools
- ★ The Series 5800 is an excellent choice for VAV applications

Steel	Aluminized Steel	Aluminum	Adjustable/Steel	Adjustable/Aluminized Steel
5800-1 Surface Mount	5800-1 AS Surface Mount	5800-1 AL Surface Mount	5800A-1 Surface Mount	5800A-1 AS Surface Mount
5800-6 T-bar Lay-in	5800-6 AS T-bar Lay-in	5800-6 AL T-bar Lay-in	5800A-6 T-bar Lay-in	5800A-6 AS T-bar Lay-in
5800-6P T-bar Lay-in Panel				
5800-7 Concealed T-bar	5800-7 AS Concealed T-bar			
Metric/Steel	Metric/Aluminized Steel	Metric/Aluminum		
M5800-6 T-bar Lay-in 600mm x 600mm	M5800-6 AS T-bar Lay-in 600mm x 600mm	M5800-6 AL T-bar Lay-in 600mm x 600mm		



Series
Phenomenator®

Square Face Diffusers - Round Neck - Ultra High Performance - Series Phenomenator®

- ★ The highest induction ratio of any commercial air diffuser available
- ★ Excellent selection for providing exceptional comfort, especially in executive offices, conference rooms, and board rooms
- ★ Can improve productivity by maintaining draft-free comfort in many applications
- ★ Designed for applications calling for minimal temperature differences in a space
- ★ Solves comfort problems in applications such as reception areas and entrance ways
- ★ Diffuser can be applied in critical applications requiring minimal temperature gradients

Steel	Aluminized Steel	Metric/Steel	Metric/Aluminized Steel
Phenom-1 Surface Mount	Phenom-1 AS Surface Mount	M-Phenom-6 T-bar Lay-in - 600mm x 600mm	M-Phenom-6 AS T-bar Lay-in - 600mm x 600mm
Phenom-6 T-bar Lay-in	Phenom-6 AS T-bar Lay-in		
Phenom-7 Concealed T-bar	Phenom-7 AS Concealed T-bar		
Phenom-9 Donn Finline	Phenom-9 AS Donn Finline		



Model
5500 DAF-CC5

Concentric Supply/Return Ceiling Diffusers - Louvered Face - Cube Core Series 5500 DAF-CC5

- ★ 5500 DAF-CC5 concentric supply/return diffuser is designed for high capacity application
- ★ Cube core return
- ★ 4-way air patterns only
- ★ Choice of 6 mounting frames
- ★ Snap-in/out core - simplifies installation
- ★ Sizes to handle full range of standard tonnage roof-top units
- ★ Supply/Return plenums are by others

Available Border Styles
5500 DAF-CC5-1 Surface Mount
5500 DAF-CC5-2 V-Beveled Drop Surface Mounting
5500 DAF-CC5-4 Deep Drop Frame
5500 DAF-CC5-6 T-bar Lay-in
5500 DAF-CC5-7 Concealed T-bar
5500 DAF-CC5-8 Tegular T-bar Lay-in



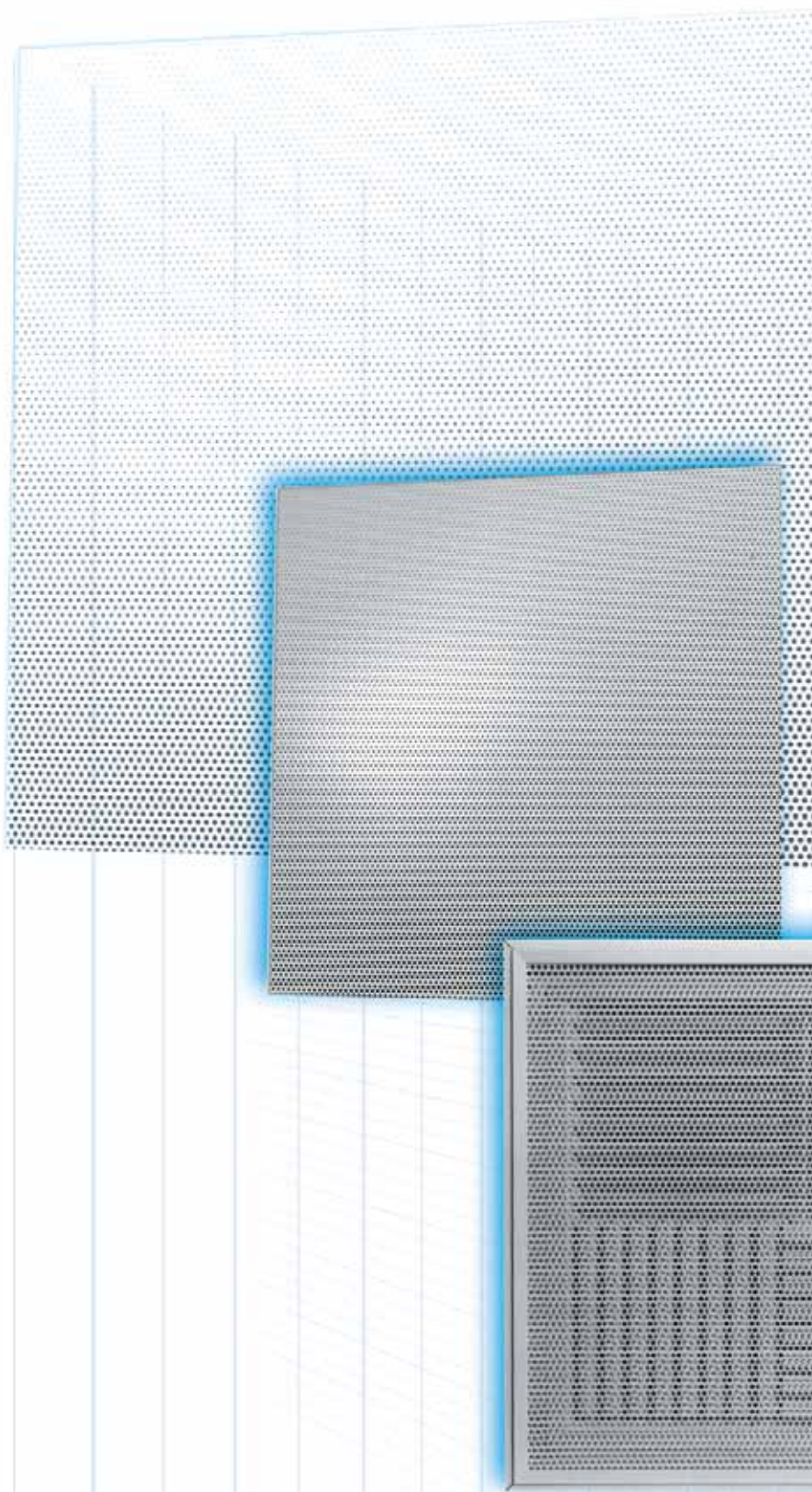
Model 9000

Square/Rectangular Diffusers - Modular Core - Supply - Extruded Aluminum - Series 9000 Mod-Flo

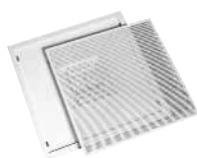
- ★ The series 9000 is a directional ceiling diffuser available in a wide range of field capabilities
- ★ Modular cores can be adjusted to obtain 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way air patterns
- ★ Cores are easy to remove with spring loaded latches - no tools required
- ★ T-bar Lay-in border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ The series 9000 is an excellent choice for VAV applications

Available Styles
9000-1 Surface Mount
9000-2 Beveled Frame
9000-6 T-bar Lay-in
9000-7 Concealed Spline
9000-8 Tegular T-bar
9000-9 Donn Finline

PERFORATED
CEILING
DIFFUSERS



**PERFORATED
CEILING DIFFUSERS**


Model 7000

Series 7000 - Supply
Series 7000R - Return

Perforated Supply - Extruded Aluminum - Curved Blade Pattern Controller - Series 7000

- ★ The series 7000 is an aluminum, perforated supply diffuser with curved blade pattern controllers mounted in the neck of the diffuser. Pattern controllers are adjustable from a horizontal to vertical discharge pattern
- ★ The face is secured with spring clips making removal and access to the pattern controllers easy
- ★ Units are available in 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way patterns
- ★ The Series 7000 generates a "star pattern" directional discharge of air maximizing induction and room air mixing
- ★ T-bar Lay-in border type 6 is designed to be installed in standard 15/16" tee. This border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ Matching returns available: 7000R
- ★ The series 7000 is an excellent choice for VAV applications

Supply		Return	
7000-1 Surface Mount	7000-8 Tegalur T-bar	7000R-1 Surface Mount	7000R-8 Tegalur T-bar
7000-6 T-bar Lay-in	7000-9 Donn Finline	7000R-6 T-bar Lay-in	7000R-9 Donn Finline
7000-7 Concealed T-bar		7000R-7 Concealed T-bar	


Model PRTB

Series PRTB - Aluminum
Series SPRTB - Steel

Perforated Screen - Non-Ducted - Return - Aluminum/Steel - Series PRTB

- ★ The series PRTB is an economical choice for non-duct plenum return applications and is shipped without pattern controllers
- ★ Unit can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)

Aluminum	Steel
PRTB-6 T-bar Lay-in	SPRTB-6 T-bar Lay-in
PRTB-8 Tegalur T-bar	SPRTB-8 Tegalur T-bar
PRTB-9 Donn Finline	SPRTB-9 Donn Finline


Model 7300

Perforated Supply/Return Diffuser - Fiberglass Backpan - Series 7300

- ★ The series 7300 perforated supply diffuser is an economical diffuser with a fiberglass plenum designed to allow field installation of the inlet collar (by others). The face of the diffuser is non-removable and includes a pattern controller set for a circular 360° degree round discharge pattern
- ★ The series 7300 provides a 360° tight horizontal circular pattern along the ceiling
- ★ The series 7300 includes a T-bar Lay-in border type 6 which is designed to be installed in standard 15/16" tee
- ★ Border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ Matching returns available: 7300R
- ★ The series 7300 is an excellent choice for VAV applications

T-bar Lay-in
7300-6 Fixed Steel Face
7300-6 AF Fixed Aluminum Face


Model 7350

Perforated Supply/Return Diffuser - Fiberglass Backpan - Series 7350

- ★ The series 7350 perforated supply diffuser is an economical diffuser with a fiberglass plenum designed to allow field installation of the inlet collar (by others)
- ★ The face diffuser includes a hinged removable face and 4 pattern controllers that can adjusted for a 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way discharge air patterns
- ★ Set in a 4-way pattern, the 7350 provides a 360° tight horizontal circular pattern along the ceiling
- ★ The series 7350 includes a T-bar Lay-in border type 6 designed to be installed in standard 15/16" tee
- ★ Border type 6 can be used in surface mounting applications by adding optional T-bar Plaster Frame (TBPF)
- ★ Matching returns available: 7350R
- ★ The series 7350 is an excellent choice for VAV applications

	Supply	Return
T-bar Lay-in	7350-6 Hinged Steel Removable Face	7350R-6 Hinged Steel Removable Face
	7350-6 AF Hinged Aluminum Removable Face	7350R-6 AF Hinged Aluminum Removable Face
Tegalur T-bar	7350-8 Hinged Steel Removable Drop Face	7350R-8 Hinged Steel Removable Drop Face

PCD - Perforated Ceiling Diffusers



Model 7500

Pg. 64

Round Neck
Series 7500 - Supply
Series 7500R - Return

Square Neck
Series 7550 - Supply
Series 7550R - Return

Perforated Ceiling Diffuser - Face Mounted Adjustable Pattern Controller - Series 7500

- ★ The series 7500 and 7550 perforated supply diffusers have 4 adjustable pattern controllers mounted on the face of the diffuser.
- ★ Series 7500 are round neck diffusers; series 7550 are square neck diffusers
- ★ The hinged, fully removable face allow access to the pattern controllers
- ★ Unit can be adjusted for 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way patterns
In 4-way pattern, Series 7500 provides a 360° tight horizontal circular pattern along the ceiling
- ★ T-bar Lay-in border type 6 is designed to be installed in standard 15/16" tee
- ★ Border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ Matching returns available: 7500R (round neck) and 7550R (square neck)
- ★ The series 7500 and 7550 are excellent choices for VAV applications

Round Neck			
Supply		Return	
7500-1 Surface Mount	7500-8 Tegular T-bar	7500R-1 Surface Mount	7500R-8 Tegular T-bar
7500-1 DF Surface Mount - Drop Face	7500-8 AF Tegular T-bar - Aluminum Face	7500R-1 DF Surface Mount - Drop Face	7500R-8 AF Tegular T-bar - Aluminum Face
7500-1 AF Surface Mount - Aluminum Face	7500-8 AL Tegular T-bar - All Aluminum	7500R-1 AF Surface Mount - Aluminum Face	7500R-8 AL Tegular T-bar - All Aluminum
7500-6 T-bar Lay-in	7500-9 Donn Finline	7500R-6 T-bar Lay-in	7500R-9 Donn Finline
7500-6 AF T-bar Lay-in - Aluminum Face	Metric	7500R-6 AF T-bar Lay-in - Aluminum Face	Metric
7500-6 AL T-bar Lay-in - All Aluminum	M-7000-6 T-bar Lay-in - 600mm x 600mm	7500R-6 AL T-bar Lay-in - All Aluminum	M-7500R-6 T-bar Lay-in - 600mm x 600mm

Square Neck			
Supply		Return	
7550-1 Surface Mount	7550-8 Tegular T-bar	7550R-1 Surface Mount	7550R-8 Tegular T-bar
7550-1 DF Surface Mount - Drop Face	7550-8 AF Tegular T-bar - Aluminum Face	7550R-1 DF Surface Mount - Drop Face	7550R-8 AF Tegular T-bar - Aluminum Face
7550-1 AF Surface Mount - Aluminum Face	7550-8 AL Tegular T-bar - All Aluminum	7550R-1 AF Surface Mount - Aluminum Face	7550R-8 AL Tegular T-bar - All Aluminum
7550-6 T-bar Lay-in	7550-9 Donn Finline	7550R-6 T-bar Lay-in	7550R-9 Donn Finline
7550-6 AF T-bar Lay-in - Aluminum Face	Metric	7550R-6 AF T-bar Lay-in - Aluminum Face	Metric
7550-6 AL T-bar Lay-in - All Aluminum	M-7550-6 T-bar Lay-in - 600mm x 600mm	7550R-6 AL T-bar Lay-in - All Aluminum	M-7550R-6 T-bar Lay-in - 600mm x 600mm



Model 7600

Pg. 70

Round Neck
Series 7600 - Supply
Series 7600R - Return

Square Neck
Series 7650 - Supply
Series 7650R - Return

Perforated Ceiling Diffuser - Curved Blade - Neck Mounted Pattern Controller - Series 7600

- ★ The Series 7600 and 7650 perforated supply diffusers have curved blade pattern controllers mounted in the neck of the diffuser. Pattern controllers are adjustable from a horizontal to vertical discharge pattern
- ★ Series 7600 are round neck diffusers; series 7650 are square neck diffusers
- ★ The hinged, fully removable face allow access to the pattern controllers
- ★ Units are available in 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way patterns. The 4-way core can be set for corner or side discharge patterns. The series 7600 and 7650 provide a "star pattern" directional discharge of air maximizing induction and room air mixing
- ★ T-bar Lay-in border type 6 is designed to be installed in standard 15/16" tee
- ★ Border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ★ Matching returns available: 7600R (round neck) and 7650R (square neck)
- ★ The series 7600 and 7650 are excellent choices for VAV applications

Round Neck			
Supply		Return	
7600-1 Surface Mount	7600-8 Tegular T-bar	7600R-1 Surface Mount	7600R-8 Tegular T-bar
7600-1 DF Surface Mount - Drop Face	7600-8 AF Tegular T-bar - Aluminum Face	7600R-1 DF Surface Mount - Drop Face	7600R-8 AF Tegular T-bar - Aluminum Face
7600-1 AF Surface Mount - Aluminum Face	7600-8 AL Tegular T-bar - All Aluminum	7600R-1 AF Surface Mount - Aluminum Face	7600R-8 AL Tegular T-bar - All Aluminum
7600-6 T-bar Lay-in	7600-9 Donn Finline	7600R-6 T-bar Lay-in	7600R-9 Donn Finline
7600-6 AF T-bar Lay-in - Aluminum Face	Metric	7600R-6 AF T-bar Lay-in - Aluminum Face	Metric
7600-6 AL T-bar Lay-in - All Aluminum	M-7600-6 T-bar Lay-in - 600mm x 600mm	7600R-6 AL T-bar Lay-in - All Aluminum	M-7600R-6 T-bar Lay-in - 600mm x 600mm

Square Neck			
Supply		Return	
7650-1 Surface Mount	7650-8 Tegular T-bar	7650R-1 Surface Mount	7650R-8 Tegular T-bar
7650-1 DF Surface Mount - Drop Face	7650-8 AF Tegular T-bar - Aluminum Face	7650R-1 DF Surface Mount - Drop Face	7650R-8 AF Tegular T-bar - Aluminum Face
7650-1 AF Surface Mount - Aluminum Face	7650-8 AL Tegular T-bar - All Aluminum	7650R-1 AF Surface Mount - Aluminum Face	7650R-8 AL Tegular T-bar - All Aluminum
7650-6 T-bar Lay-in	7650-9 Donn Finline	7650R-6 T-bar Lay-in	7650R-9 Donn Finline
7650-6 AF T-bar Lay-in - Aluminum Face	Metric	7650R-6 AF T-bar Lay-in - Aluminum Face	Metric
7650-6 AL T-bar Lay-in - All Aluminum	M-7650-6 T-bar Lay-in - 600mm x 600mm	7650R-6 AL T-bar Lay-in - All Aluminum	M-7650R-6 T-bar Lay-in - 600mm x 600mm



Model 7900

Perforated Face Modular Core Diffuser - Aluminum - Series 7900

- ✧ The series 7900 is an aluminum, perforated modular core supply diffuser. Modular cores can be field adjusted for 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way air discharge patterns
- ✧ The perforated face is secured with spring clips making removal and access to the modular core pattern controllers easy
- ✧ T-bar Lay-in border type 6 is designed to be installed in standard 15/16" tee
- ✧ Border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ✧ Matching returns available: 7900R
- ✧ The series 7900 is an excellent choice for VAV applications

Supply	
7900-1	Surface Mount
7900-6	T-bar Lay-in
7900-7	Concealed Spline
7900-8	Tegular T-bar

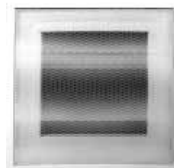
Perforated Face Modular Core Diffuser - Aluminum Deflectors/Steel Backpan - Square Neck - Series 7950



Model 7950

- ✧ The series 7950 perforated modular core supply diffuser with a steel backpan. Modular cores can be field adjusted for 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way air discharge patterns
- ✧ The perforated face is secured with spring clips making removal and access to the modular core pattern controllers easy
- ✧ T-bar Lay-in border type 6 is designed to be installed in standard 15/16" tee
- ✧ Border type 6 can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ✧ Matching returns available: 7950R
- ✧ The 7950 is an excellent choice for VAV applications

Supply	
7950-1	Surface Mount
7950-1 DF	Surface Mount - Drop Face
7950-1 AF	Surface Mount - Aluminum Face
7950-6	T-bar Lay-in
7950-6 AF	T-bar Lay-in - Aluminum Face
7950-8	Tegular T-bar
7950-8 AF	Tegular T-bar - Aluminum Face
7950-9	Donn Finline



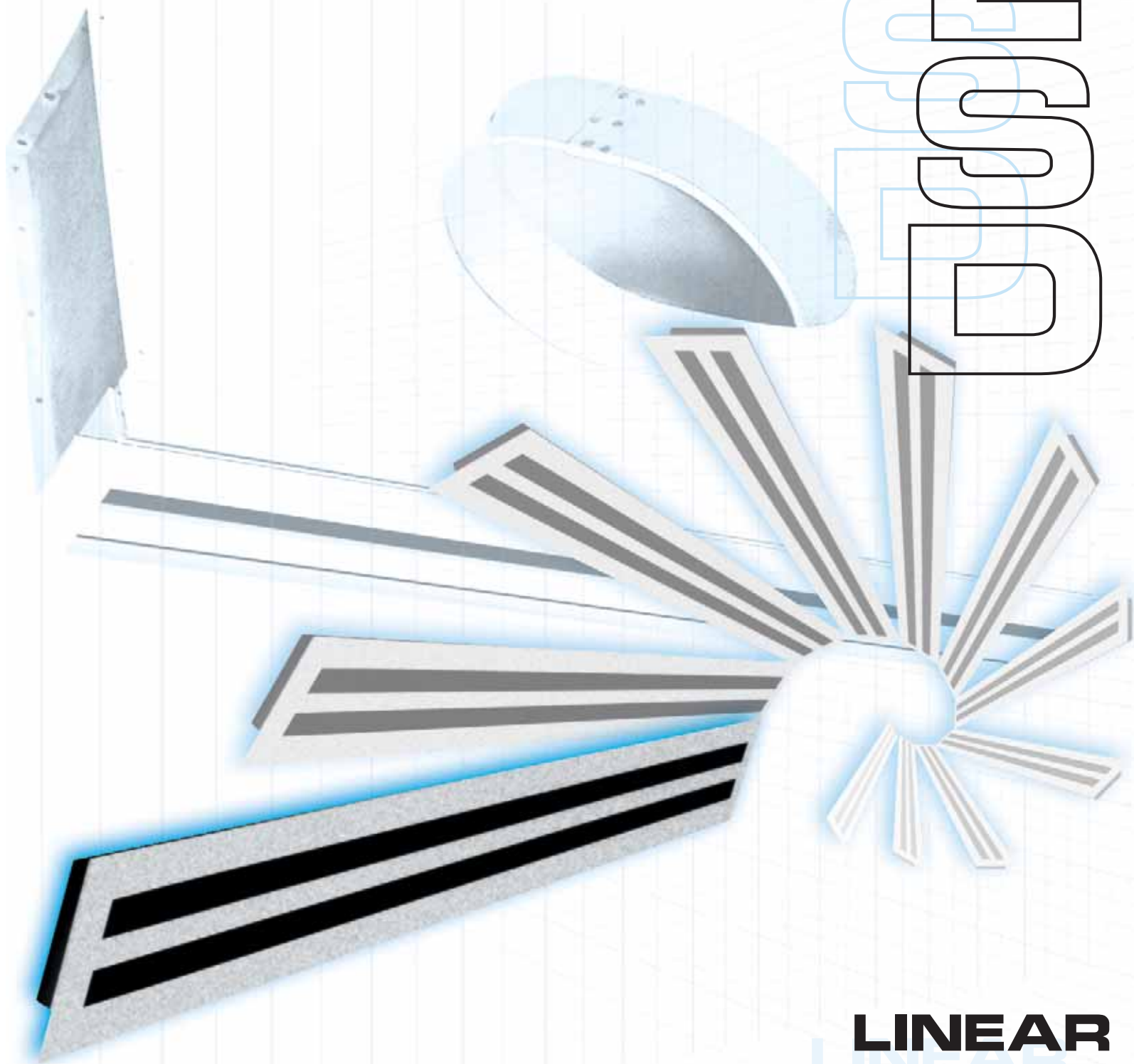
Model
7550R-F

Perforated Filter Return Diffuser - Square Neck - Steel Series 7550R-F/7650R-F

- ✧ Unit can be used in surface mounting applications by adding optional T-bar plaster frame (TBPF)
- ✧ T-bar Lay-in border type 6 is designed to be installed in standard 15/16" tee
- ✧ The hinged, perforated face, allows access to the filter (by others)

Filter Return	
7550R-1 F	Surface Mount - Filter Back
7550R-6 F	T-bar Lay-in - Filter Back
7550R-8 F	Tegular T-bar - Filter Back
7650R-1 F	Surface Mount - Filter Back
7650R-6 F	T-bar Lay-in - Filter Back
7650R-8 F	Tegular T-bar - Filter Back

LINEAR
SLOT
DIFFUSERS



**LINEAR
SLOT DIFFUSERS**



Model 6600

Supply/Return Linear Slot Diffuser w/Integral Volume/Directional Pattern Controllers - Aluminum Series 6600/6600R

- Available in 1 to 8 slots with 1/2", 3/4", or 1" slot width
- Excellent choice for continuous linear slot applications. Units are available in a single section up to 8'. This feature gives a clean appearance and makes installation easier with fewer joints to line up
- Pattern controllers on supply units are aluminum and are adjustable from the face of the diffuser and can be set to adjust volume or throw direction from vertical to horizontal
- Available for T-bar Lay-in, Surface mount, Narrow Tee, Dropped Face, Concealed Spline, or Concealed Spline/Plaster Frame
- Optional BP factory supplied boot plenums are available
- The series 6600 is an excellent selection for variable volume systems supplying a tight horizontal pattern from maximum to minimum throws
- The series 6600R is designed for return applications. The unit is supplied without pattern controllers to reduce pressure and noise
- Series 6600 is Patent Pending

	Supply				
	T-bar Lay-in	Surface Mount	Concealed Spline	Drop Face	Narrow Tee
Screw Mounted		6600-11-1 1 1/8" Border			
Concealed Mounting Hardware	6600-12-6 1 1/8" Border	6600-12-1 1 1/8" Border	6600-42-7 25/32" Border		
No Mounting Hardware	6600-10-6 1 1/8" Border		6600-40-7 25/32" Border	6600-40-8 25/32" Border	6600-40-9 25/32" Border
	6600-20-6 3/4" Border				
	6600-30-6 1/2" Border				

Concealed Spline/ Plaster Mounting Frame	Concealed Wall Mounted Spline/ Plaster Mounting Frame
6600-22-73 3/4" Border	6600-22-74 3/4" Border

	Return				
	T-bar Lay-in	Surface Mount	Concealed Spline	Drop Face	Narrow Tee
Screw Mounted		6600R-11-1 1 1/8" Border			
Concealed Mounting Hardware	6600R-12-6 1 1/8" Border	6600R-12-1 1 1/8" Border	6600R-42-7 25/32" Border		
No Mounting Hardware	6600R-10-6 1 1/8" Border		6600R-40-7 25/32" Border	6600R-40-8 25/32" Border	6600R-40-9 25/32" Border
	6600R-20-6 3/4" Border				
	6600R-30-6 1/2" Border				

Concealed Spline/ Plaster Mounting Frame	Concealed Wall Mounted Spline/ Plaster Mounting Frame
6600R-22-73 3/4" Border	6600R-22-74 3/4" Border

Supply/Return Linear Slot Diffuser for Spiral Pipe - Aluminum - Series 6600SP/6600SPR



Model 6610SP

- The series 6600SP is designed to integrate into exposed spiral duct systems
- Series 6600SP pattern controllers are fully adjustable and can be set from horizontal to vertical discharge
- The series 6600SP operates effectively from minimum to maximum flow making this diffuser an excellent selection for variable volume systems
- Series 6600SPR is designed for return applications. The unit is supplied without pattern controllers to reduce pressure and noise

Supply	Return
6610SP-11-1 Screw Mounted - 1 1/8" Border	6610SPR-11-1 Screw Mounted - 1 1/8" Border
6610SP-12-1 Concealed Mounting Hardware - 1 1/8" Border	6610SPR-12-1 Concealed Mounting Hardware - 1 1/8" Border



Model BP

Boot Plenums - Insulated/Non-Insulated for 6600 - Series BP

- ★ The series BP (non-insulated) and BPI (insulated) boot plenums are designed to connect the Series 6600 linear slot diffusers to the ducted supply or return system
- ★ Units provide an even distribution of air into the series 6600 diffuser to maximize induction and occupant comfort
- ★ The series BPI boot plenum is fully insulated — including the end caps
- ★ Units can be used for both ducted and plenum returns
- ★ Factory tested and manufactured BP/BPI plenums are built to fit securely into the series 6600 of diffusers reducing installation cost and minimizing leakage
- ★ Available with an optional quadrant locking damper
- ★ Series BP & BPI are shipped separate from series 6600 linear slot diffusers and require field attachment

	Non Insulated				
	T-bar Lay-in	Surface Mount	Concealed Spline	Drop Face	Narrow Tee
Screw Mounted		BP-11-1 1 1/8" Border			
Concealed Mounting Hardware	BP-12-6 1 1/8" Border	BP-12-1 1 1/8" Border	BP-42-7 25/32" Border		
No Mounting Hardware	BP-10-6 1 1/8" Border		BP-40-7 25/32" Border	BP-40-8 25/32" Border	BP-40-9 25/32" Border
	BP-20-6 3/4" Border				
	BP-30-6 1/2" Border				

Concealed Spline/ Plaster Mounting Frame	Concealed Wall Mounted Spline/ Plaster Mounting Frame
BP-22-73 3/4" Border	BP-22-74 3/4" Border

	Insulated				
	T-bar Lay-in	Surface Mount	Concealed Spline	Drop Face	Narrow Tee
Screw Mounted		BPI-11-1 1 1/8" Border			
Concealed Mounting Hardware	BPI-12-6 1 1/8" Border	BPI-12-1 1 1/8" Border	BPI-42-7 25/32" Border		
No Mounting Hardware	BPI-10-6 1 1/8" Border		BPI-40-7 25/32" Border	BPI-40-8 25/32" Border	BPI-40-9 25/32" Border
	BPI-20-6 3/4" Border				
	BPI-30-6 1/2" Border				

Concealed Spline/ Plaster Mounting Frame	Concealed Wall Mounted Spline/ Plaster Mounting Frame
BPI-22-73 3/4" Border	BPI-22-74 3/4" Border



Model L-5000

Linear Louver Diffusers - Series L-5000

- ★ The series L-5000 is a fixed pattern, high induction architectural linear slot diffuser. This diffuser is constructed from heavy aluminum extrusions and is available with either 1-way or 2-way opposite air discharge patterns
- ★ The series L-5000 generates a tight, high induction discharge of air maximizing room air mixing and occupant comfort. With the optional IV induction vanes, mixing and performance is further increased reducing temperature gradients and increasing room air circulation
- ★ Also available is an optional plenum that allows the 2-way opposite unit to become a supply/return diffuser. The optional L-5000 BP-SR has a dividing section built into the plenum making an effective choice for perimeter supply/return applications
- ★ T-bar Lay-in units available in 18", 24", 30", 36" or 42" and in surface mounting applications up to 48"
- ★ 1-way units available in 3", 6", 9", 12" and 15" widths
- ★ 2-way opposite units available in 6" and 12" widths
- ★ The louvered face is secured with spring clips making removal easy for installation
- ★ The series L-5000 is an excellent choice for VAV applications

Surface Mount	L-5000-1
T-bar Lay-in	L-5000-6

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DESIGN

**PLENUM
SLOT DIFFUSERS**



Series PHP

Plenum Slot Diffusers - Adjustable Pattern Controller - Series PHP

- ★ Heavy duty extruded aluminum pattern controller and gasket for tight horizontal discharge pattern
- ★ Field adjustable pattern controllers allow adjustable horizontal and vertical throw
- ★ Units available in 1 to 4 slots to meet a wide range of applications and capabilities
- ★ Double hem face construction for rigidity and straightness
- ★ PHPR return model offers low pressure drop return; integral light shield hides interior of unit
- ★ One-piece plenum construction ensures tight fit in ceiling grid
- ★ Optional 1/4" insulation on PHPI-6 units
- ★ Lay-in (type 6) integrates into 1" T-bar ceiling

	T-bar Lay-in		Fineline Ceilings			
	Supply	Return	Supply		Return	
Insulated	PHPSI-6	PHPRI-6	PHPSI-9 Supply w/Center Tee	PHNSI-9 Supply w/hat section	PHPRI-9 Return w/Center Tee	PHNRI-9 Return w/hat section
Non-Insulated	PHPS-6	PHPR-6	PHPS-9 Supply w/Center Tee	PHNS-9 Supply w/hat section	PHPR-9 Return w/Center Tee	PHNR-9 Return w/hat section



Series PHC

High Capacity Plenum Slot Diffusers - Fixed Pattern Controller - Series PHC

- ★ Aerodynamically shaped, heavy duty extruded aluminum curved blade pattern controller generates a tight horizontal discharge pattern
- ★ Excellent selection for perimeter applications, especially in cold climates because of its high induction ratio
- ★ Available with integral return, a low cost and efficient solution to return air into the ceiling plenum
- ★ Optional 1/4" insulation on PHCSI-6, PHCRI-6, PHCSI-DB-6, and PHCRI-DB-6

T-bar Lay-in				
Insulated	PHCSI-6 Supply	PHCRI-6 Supply - with Return	PHCSI-DB-6 Supply - with Down Blow	PHCRI-DB-6 Supply - with Down Blow & Return
Non-Insulated	PHCS-6 Supply	PHCR-6 Supply - with Return	PHCS-DB-6 Supply - with Down Blow	PHCR-DB-6 Supply - with Down Blow & Return



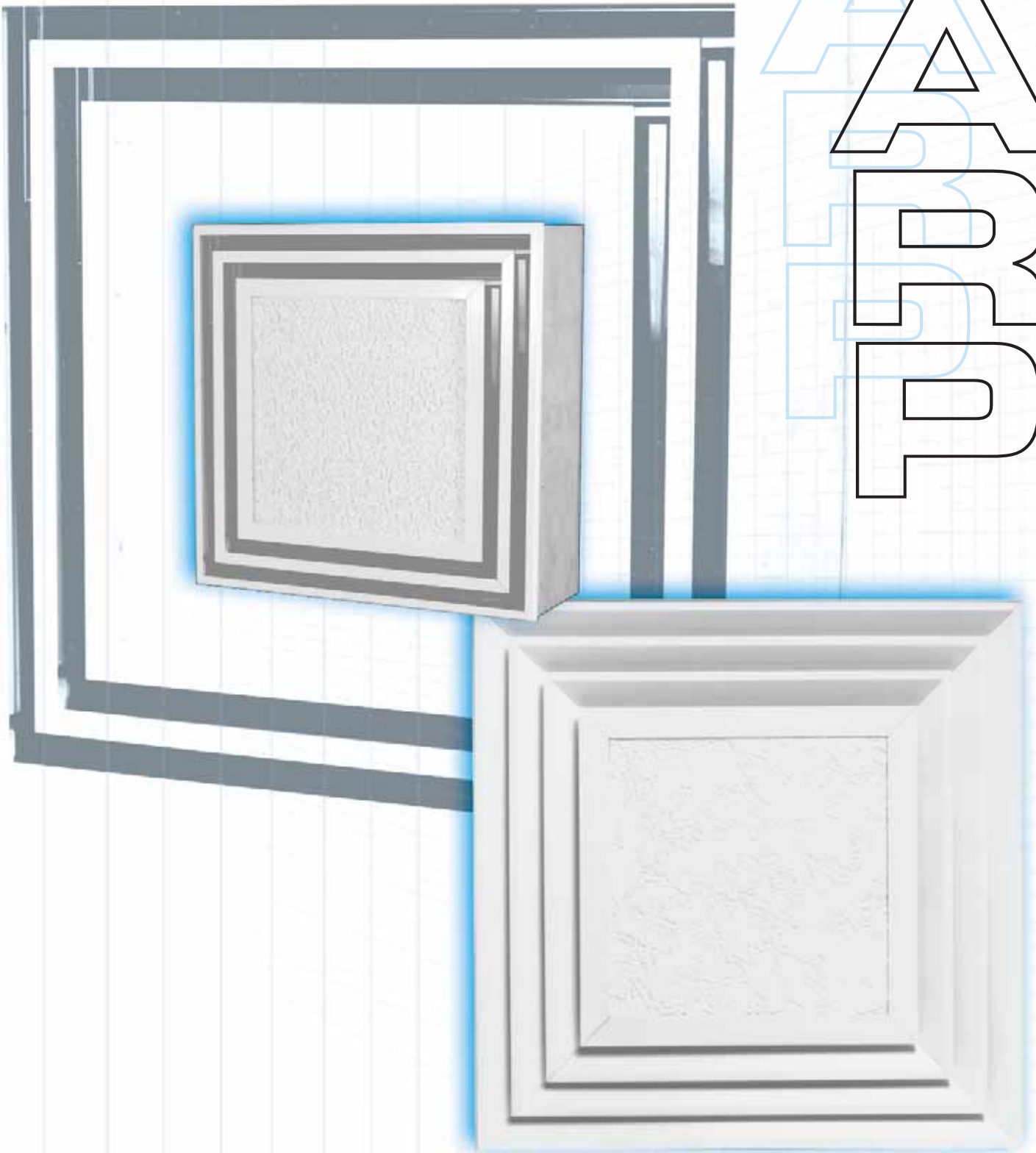
Series LT

Light Troffer Diffusers - Fixed Pattern Controller - Series LT

- ★ Architecturally pleasing; reduces ceiling clutter by integrating the ceiling diffuser into the light fixture
- ★ Each unit is customized to fit the specified light fixture ensuring a tight seal for optimum performance
- ★ Optional 1/2" internal insulation available
- ★ Available with single or double-sided supply configurations
- ★ Model DS-LT-6 double-sided diffusers are available with side or top inlet for installation flexibility
- ★ Matching single-sided plenum return unit model SSR-LT-6 is available

T-bar Lay-in				
Insulated	SSI-LT-6 Single Side	DSI-LT-6 Double Side - Side Inlet	DSTI-LT-6 Double Side - Top Inlet	SSRI-LT-6 Single Side Return
Non-Insulated	SS-LT-6 Single Side	DS-LT-6 Double Side - Side Inlet	DST-LT-6 Double Side - Top Inlet	SSR-LT-6 Single Side Return

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**ARCHITECTURAL
DIFFUSERS**



Model 5500DD

Louvered Face - Fixed Deflection - Aluminum - Series 5500DD

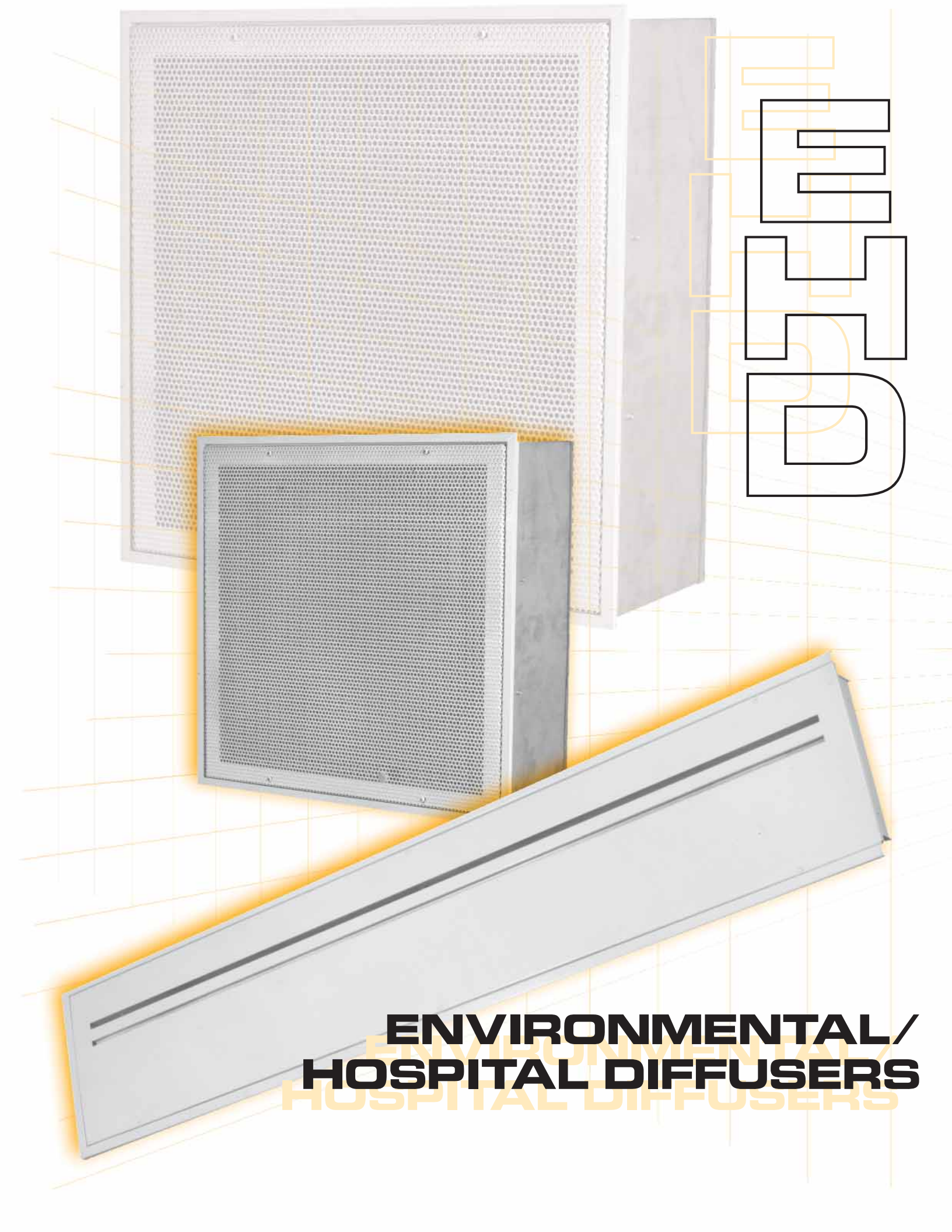
- ★ Series 5500DD offers an architectural diffuser designed to excel in both performance and aesthetic appeal
- ★ The unique horizontal lip on all sides of the diffuser face provides a horizontal air pattern that is tight to the ceiling. This attribute makes the series 5500DD ideally suited for maximum occupant comfort, even in variable volume systems
- ★ The series 5500DD is shipped fully assembled and is designed to allow the ceiling tile to be installed (by others) from the face without having to remove the plenum. This means the center tile can be installed after the diffuser has been installed in the ceiling
- ★ The series 5500DD, available in both supply and return models, is offered in a wide variety of border styles and slot configurations, allowing for maximum design flexibility
- ★ Supply unit constructed with extruded aluminum face and steel backpan. Return units include steel light shield/baffle
- ★ Available with 1 to 4 slots
- ★ The series 5500DD is an excellent choice for VAV applications

	Louvered Face			
	Supply		Return	
Insulated	5500DDI-6 T-bar Lay-in	5500DDI-8 T-bar Lay-in		
	5500DDI-9 24x24 Donn Finline			
Non-Insulated	5500DD-6 T-bar Lay-in	5500DD-8 T-bar Lay-in	5500DDR-6 T-bar Lay-in	5500DDR-8 T-bar Lay-in
	5500DD-9 24x24 Donn Finline		5500DDR-9 Fine LIne	

Modular Slot - Aluminum- Series 6600SQ

- ★ The series 6600SQ provides outstanding operation flexibility. The supply units are shipped with pattern controllers that are individually adjustable from the face of the diffuser. This feature allows the direction of air flow to be adjusted a full 180°. The return is shipped without pattern controller to minimize sound and pressure drop
- ★ The series 6600SQ is shipped fully assembled and is designed to allow the ceiling tile to be installed (by others) from the face without having to remove the plenum. This means the center tile can be installed after the diffuser has been installed in the ceiling
- ★ The series 6600SQ, available in both supply and return models, is offered in a wide variety of border styles and slot configurations, allowing for maximum design flexibility
- ★ Supply unit constructed with extruded aluminum face and pattern controllers, with a steel backpan. Return units include steel light shield/baffle
- ★ Available with 1 to 4 slots
- ★ The series 6600SQ is an excellent choice for VAV applications

	Modular Slot			
	Supply		Return	
Insulated	6600SQI-6 T-bar Lay-in	6600SQI-8 T-bar Lay-in		
	6600SQI-9 Donn Finline			
Non-Insulated	6600SQ-6 T-bar Lay-in	6600SQ-8 T-bar Lay-in	6600SQR-6 T-bar Lay-in	6600SQR-8 T-bar Lay-in
	6600SQ-9 Donn Finline		6600SQR-9 Donn Finline	



NEW

ENVIRONMENTAL/ HOSPITAL DIFFUSERS



Model HPL-CL

Environmental/Hospital Diffusers - Laminar Flow - Series HPL-CL

- ✧ The HPL laminar flow diffusers are engineered for supply air distribution in critical environments such as hospital operating rooms and clean rooms. The diffusers are engineered to supply a low velocity vertical "piston" of conditioned air
- ✧ The HPL-CL laminar is easy to clean and sterilize. The face and core assembly can be removed from the face for cleaning. With the face and core assembly removed, the interior of the backpan and inlet collar are free of obstructions and easy to access
- ✧ The diffuser is available with a choice of three free areas for the perforated face: 23%, 40% and 51% maximizing the range of capacities for the HPL. The HPL is also available in aluminum or stainless steel construction

	Laminar Flow		
	Surface Mount	T-bar Lay-in	Special 1 1/2" T-bar Lay-in
Aluminum	HPL-CL-AL-1	HPL-CL-AL-6	HPL-CL-AL-6M
Stainless Steel	HPL-CL-SS-1	HPL-CL-SS-6	HPL-CL-SS-6M
SS Face/Aluminum Backpan	HPL-CL-SA-1	HPL-CL-SA-6	HPL-CL-SA-6M

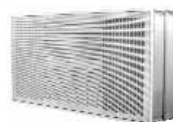


Model HPL-HA

Environmental/Hospital Diffusers - Laminar Flow - w/HEPA Filter Cell - Series HPL-HA

- ✧ When the application calls for the HEPA filters to be located in the supply diffuser, the HPL-HA is an excellent choice. The series HPL-HA laminar flow diffusers are engineered for supply air distribution in critical environments such as hospital operating rooms and clean rooms. The diffusers are engineered to supply a low velocity vertical "piston" of conditioned air
- ✧ The series HPL-HA design includes a HEPA filter cell accessible from the face of the diffuser. The face and core assembly can be removed from the face for cleaning. This feature allows the filters to be removed and replaced from the diffuser face
- ✧ The diffuser is available with a choice of three free areas for the perforated face: 23%, 40% and 51% maximizing the range of capacities for the HPL. The HPL is also available in aluminum or stainless steel construction
- ✧ Optional HEPA filters are available

	Laminar Flow		
	Surface Mount	T-bar Lay-in	Special 1 1/2" T-bar Lay-in
Aluminum	HPL-HA-AL-1	HPL-HA-AL-6	HPL-CL-HA-6M
Stainless Steel	HPL-HA-SS-1	HPL-HA-SS-6	HPL-CL-HA-6M
SS Face/Aluminum Backpan	HPL-HA-SA-1	HPL-HA-SA-6	HPL-CL-HA-6M

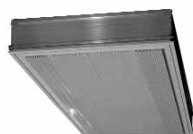


Model HPL-PR

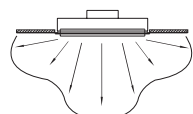
Environmental/Hospital Diffusers - Laminar Flow - Patient Isolation Applications - Series HPL-PR

- ✧ The series HPL-PR is specifically engineered to improve patient comfort in critical health care applications such as isolation rooms and trauma centers. The unique design provides a "tent" of conditioned air around the patient
- ✧ The unique design of the HPL-PR provides filtered air to protect the patient and at the same time minimize the air velocities that impact the patient. This device provides a high level of comfort
- ✧ Series HPL-PR includes a HEPA filter section. Optional HEPA filters are available. HPL-PR configuration minimizes induction, distributing low velocity air with minimum aspiration
- ✧ Unit is aluminum construction and is available for Surface Mount and T-bar Lay-in applications, and is also available for special 1 1/2" wide T-bar Lay-in applications

	Laminar Flow - Patient Isolation Applications		
	Surface Mount	T-bar Lay-in	Special 1 1/2" T-bar Lay-in
Aluminum	HPL-PR-AL-1	HPL-PR-AL-6	HPL-PR-AL-6M
Stainless Steel	HPL-PR-SS-1	HPL-PR-SS-6	HPL-PR-SS-6M
SS Face/Aluminum Backpan	HPL-PR-SA-1	HPL-PR-SA-6	



Model HRD-CL



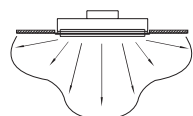
Environmental/Hospital Diffusers - Radial Discharge Pattern - Removable Face - Series HRD-CL

- ★ The HRD-CL radial discharge pattern diffusers are engineered for supply air distribution in critical environments such as chemistry labs and clean rooms. The diffusers are engineered to supply a low velocity of conditioned air in a radial pattern from the ceiling
- ★ The HRD-CL radial discharge pattern diffusers are easy to clean and sterilize. The face and core assembly can be removed from the face for cleaning. With the face and core assembly removed, the interior of the backpan and inlet collar are free of obstructions and easy to access
- ★ The diffuser is available in stainless steel or heavy aluminum construction. Units available in 90° or 180° throw

	Radial Discharge		
	Flush Mount	T-bar Lay-in	Special 1 1/2" T-bar Lay-in
Aluminum	HRD-CL-AL-1	HRD-CL-AL-6	HRD-CL-AL-6M
Stainless Steel	HRD-CL-SS-1	HRD-CL-SS-6	HRD-CL-SS-6M
SS Face/Aluminum Backpan	HRD-CL-SA-1	HRD-CL-SA-6	HRD-CL-SA-6M



Model HRD-HA



Environmental/Hospital Diffusers - Radial Discharge Pattern - Removable Face w/HEPA Filter Series HRD-HA

- ★ The series HRD-HA radial discharge pattern diffusers includes a HEPA filter section and are engineered for supply air distribution in critical environments such as chemistry labs and clean rooms. The diffusers are engineered to supply a low velocity of conditioned air in a radial pattern from the ceiling
- ★ The series HRD-HA design includes a HEPA filter cell accessible from the face of the diffuser. The face and core assembly can be removed from the face for cleaning. This feature allows the filters to be removed and replaced from the diffuser face. Optional HEPA filters are available
- ★ The HRD-HA Radial Discharge Pattern Diffusers are easy to clean and sterilize. The face and core assembly can be removed from the face for cleaning. With the face and core assembly removed, the interior of the backpan and inlet collar are free of obstructions and easy to access
- ★ The diffuser is available in stainless steel or heavy aluminum construction. Units available in 90° or 180° throw
- ★ Optional HEPA Filters are available

	Radial Discharge - w/HEPA Filter Cell		
	Flush Mount	T-bar Lay-in	Special 1 1/2" T-bar Lay-in
Aluminum	HRD-HA-AL-1	HRD-HA-AL-6	HRD-HA-AL-6M
Stainless Steel	HRD-HA-SS-1	HRD-HA-SS-6	HRD-HA-SS-6M
SS Face/Aluminum Backpan	HRD-HA-SA-1	HRD-HA-SA-6	HRD-HA-SA-6M

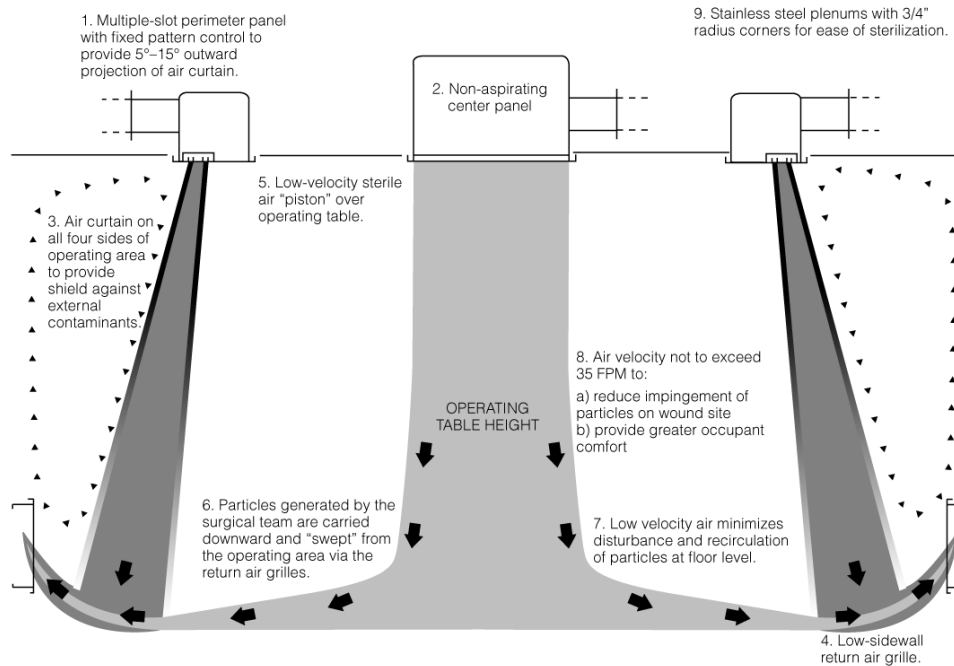


Model
Periflow

Environmental/Hospital Diffusers - Laminar Flow - Operating Room Systems - Series Periflow

- ✱ The Periflow operating room air distribution system provides control over particulate matter within the operating room environment
- ✱ The system has been tested in accordance with the guidelines set forth by the Committee on Operating Room Environments of the American College of Surgeons as published in the January 1976 Bulletin and meets Class 1 Microbiological Air Cleanliness guidelines. The system provides the highest standard of air cleanliness for patients undergoing minor procedures or surgeries as critical as organ transplants
- ✱ The system is in either stainless steel or heavy aluminum construction to ensure long-term durability and resistance to strong germicidal solutions. In addition, each system is custom designed and precisely fabricated to accommodate the specialized medical, mechanical, and electrical considerations of today's operating room environments
- ✱ By its compact yet efficient design, the Periflow system allows the designer the flexibility to properly provide for all the various components competing for space above the operating room ceiling

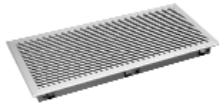
Flush Mount
Periflow Laminar Flow Panels w/Perimeter Air Curtain





LEB
G

LINEAR BAR GRILLES



Series 2000

Linear Bar Grilles & Registers - Series 2000

- Series 2000 linear bar grilles and registers are engineered for supply and return air distribution in heating, cooling, and ventilating applications, and are designed for sidewall, floor, sill, and ceiling installation
- Constructed of high-grade aluminum extrusions
- Bar grille frames are available in three border widths: 3/16", 1/2", 1"
- A complete line of accessories is available for series 2000 bar grilles and registers; including mitered corners, opposed blade dampers, adjustable extractors and grids, access doors, and debris screens

Series 2000 1" Borders - 7/32" Bars - 1/2" Center	Grilles - 1" Border		
	0° Deflection	15° Deflection	30° Deflection
Wall Mounting	2000 1" Border	2015 1" Border	2030 1" Border
Core Only	2000CO 1" Border	2015CO 1" Border	2030CO 1" Border
Floor Mounting	2000F 1" Border	2015F 1" Border	2030F 1" Border
Floor or Sill Mounting	2000FP 1" Border	2015FP 1" Border	2030FP 1" Border
Concealed Mounting Hanger	2000H 1" Border	2015H 1" Border	2030H 1" Border
For Plaster Wall & Ceilings	2000HP 1" Border	2015HP 1" Border	2030HP 1" Border

Series 2100 1/2" Borders - 7/32" Bars - 1/2" Center	Grilles - 1/2" Border		
	0° Deflection	15° Deflection	30° Deflection
Wall Mounting	2100 1/2" Border	2115 1/2" Border	2130 1/2" Border
Concealed Mounting Hanger	2100H 1/2" Border	2115H 1/2" Border	2130H 1/2" Border
Concealed Spline Subframe	2100HP 1/2" Border	2115HP 1/2" Border	2130HP 1/2" Border
Narrow Subframe	2100HW 1/2" Border	2115HW 1/2" Border	2130HW 1/2" Border
Combination Subframe	2100HC 1/2" Border	2115HC 1/2" Border	2130HC 1/2" Border

Series 2200 3/16" Border - 7/32" Bars - 1/2" Center	Grilles - 3/16" Border		
	0° Deflection	15° Deflection	30° Deflection
Non-Flanged Floor Mounting	2200F Floor Frame	2215F Floor Frame	2230F Floor Frame
Non-Flanged Floor Mounting - Pencil Proof	2200FP Floor Frame	2215FP Floor Frame	2230FP Floor Frame

Series 2300 1" Border - 1/8" Bars - 1/4" Center	Grilles - 1" Border		
	0° Deflection	15° Deflection	30° Deflection
Wall Mounting	2300 1" Border	2315 1" Border	2330 1" Border
Core Only - 1/8" Bars - 1/4" Centers	2300CO 1" Border - Core Only	2315CO 1" Border - Core Only	2330CO 1" Border - Core Only
Concealed Mounting Hangers	2300H 1" Border	2315H 1" Border	2330H 1" Border
Concealed Spline Mounting Frame	2300HP 1" Border	2315HP 1" Border	2330HP 1" Border

Series 2400 1/2" Border - 1/8" Bars - 1/4" Center	Grilles - 1/2" Border		
	0° Deflection	15° Deflection	30° Deflection
Wall Mounting	2400 1/2" Border	2415 1/2" Border	2430 1/2" Border
Concealed Mounting Hangers	2400H 1/2" Border	2415H 1/2" Border	2430H 1/2" Border
Concealed Spline Mounting Frame	2400HP 1/2" Border	2415HP 1/2" Border	2430HP 1/2" Border
Narrow Mounting Frame	2400HW 1/2" Border	2415HW 1/2" Border	2430HW 1/2" Border
Combination Narrow Mounting Frame	2400HC 1/2" Border	2415HC 1/2" Border	2430HC 1/2" Border

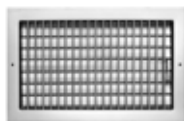
	Border	Bars	Centers
2000	1"	7/32"	1/2"
2100	1/2"	7/32"	1/2"
2200	3/16"	7/32"	1/2"
2300	1"	1/8"	1/4"
2400	1/2"	1/8"	1/4"

CG
GAR



GRILLES & REGISTERS

GRILLES & REGISTERS



Series V

Sidewall Supply Grilles - Economical Aluminum - Vertical Blades - Series V

- Series V grilles combine the advantages of corrosion resistant construction and durability with attractive design, solid performance, and competitive pricing
- This economical series of supply grilles and registers is available with the V-1 single deflection, VH-1 double deflection and with the VM-1 single deflection with a built in multi-shutter damper
- The series V are provided with vertical front blades. Units are constructed with an aluminum one piece formed border and blades

Single Deflection Grille	V-1
Double Deflection Grille	VH-1
Single Deflection — Multi-Shutter	VM-1



Series 4000

Sidewall Supply Grilles - Aluminum/Steel - Series 4000

- The series 4000 sets the standards for performance and appearance in the industry. The series 4000 is all aluminum; the series 4000S has a steel border and steel blades
- The series 4000 is available with single or double deflection, and with a number of options and accessories to meet a variety of applications
- Series 4000 grilles and registers can be selected with either vertical or horizontal front blades

	Single Deflection	
	Steel	Aluminum
Vertical Blades	V4002S-1	V4002-1
Horizontal Blades	H4002S-1	H4002-1

	Double Deflection	
	Steel	Aluminum
Vertical Front Blades	V4004S-1	V4004-1
Horizontal Front Blades	H4004S-1	H4004-1

	Single Deflection - Multi-Shutter Damper	
	Steel	Aluminum
Vertical Blades	V4002SM-1	V4002M-1
Horizontal Blades	H4002SM-1	H4002M-1



Model 4000-AF

Sidewall Supply Grille - Adjustable Air Foil Blades - Extruded Aluminum Blade Series 4000-AF - Air Foil

- The series 4000-AF is our premier product, offering superior construction and high performance with aerodynamically shaped extruded deflection blades. The 4000-AF series is constructed with an extruded aluminum border and air foil deflection blades; the 4000S-AF series has a steel border and extruded aluminum air foil deflection blades
- The series 4000-AF is an excellent choice for projects requiring superior performance and aesthetics
- The series 4000-AF is available with single or double deflection, and with a number of options and accessories to meet a variety of applications
- Series 4000-AF grilles and registers can be selected with either vertical or horizontal front blades

	Single Deflection	
	Steel Border - Aluminum Blades	Aluminum
Vertical Blades	V4002S-AF-1	V4002-AF-1
Horizontal Blades	H4002S-AF-1	H4002-AF-1

	Double Deflection	
	Steel Border - Aluminum Blades	Aluminum
Vertical Front Blades	V4004S-AF-1	V4004-AF-1
Horizontal Front Blades	H4004S-AF-1	H4004-AF-1



Series 4004P

Supply Grilles - Spiral Pipe Grille - Aluminum/Steel - Series 4004P

- The model 4004P (aluminum) and 4004SP (galvanized steel) offers superior performance in exposed duct applications offering a clean, low profile appearance
- Units can be easily installed in round duct diameters 6"-48"
- Integral gasket seals grille tightly to duct
- Units includes built in extractor to allow accurate balancing and uniform air flow
- Model 4004P is all aluminum construction. Model 4004SP includes is provided with galvanized steel border and blades

	Aluminum	Steel
Surface Mount	4004P-1	4004SP-1



Series L
Model LS3 Shown

Supply Curved Blade Ceiling Grilles - Aluminum - Series L

- ✦ The series L curved blade grilles and registers are an economic solution for use in applications requiring ceiling or sidewall installations with directional air patterns. The series L is available with 1-way, 2-way corner, 2-way opposite, 3-way, and 4-way directional air patterns
- ✦ The series L is constructed from aluminum with adjustable curved blade allowing adjustment from full horizontal to full vertical air directions
- ✦ Units are available with a wide range of options and accessories

	Single Deflection				
	No Damper		Multi-Shutter Damper Operated Through Curved Blades		Horizontal Multi-Shutter Damper Operated Through slot on border
	Long Blades	Short Blades	Long Blades	Short Blades	Long Blades
1 Way	L-1	S-1	LM-1	SM-1	LMH-1
2 Way Opposite	LT-1	ST-1	LTM-1	STM-1	LTMH-1
2 Way Corner	LTC-1		LTCM-1		
3 Way Corner	LTC3-1		LTC3M-1		
3 Way Equal Throw	LS3-1		LS3M-1		
4 Way	LS4-1		LS4M-1		

	Double Deflection - No Damper	
	Long Blades	Short Blades
1 Way	LV-1	SH-1
2 Way Opposite	LTV-1	STH-1



Series RH

Sidewall Return Grilles - Aluminum - Series RH

- ✦ The series RH return grilles combine the advantages of corrosion resistant construction and durability with attractive design, solid performance, and competitive pricing
- ✦ This economical series of roll form aluminum return grilles and registers is available with a number of borders to integrate into a wide range of ceiling systems
- ✦ Series RH is an excellent choice for exhaust and return applications

Roll Formed Aluminum/RH - Grilles	
Surface Mount	RH-1
	RH-H-1 - Hinged Core
T-bar Lay-in Modules	RH-6
Concealed T-bar Lay-in	RH-7
Tegular Lay-in	RH-8
Donn Finline Lay-in	RH-9



Series RHE

Sidewall Return Grilles - Extruded Aluminum - Series RHE

- ✦ The series RHE is our premier product, offering superior construction and high performance with extruded aluminum construction. This unit has both superior appearance and performance and is built for durability
- ✦ The series RHE is available with an optional hinge to allow access behind the grille face
- ✦ Series RHE is an excellent choice for projects requiring exhaust or return applications

Extruded Aluminum/RHE - Grilles	
Surface Mount	RHE-1
	RHE-H-1 - Hinged Core



Series SRH

Sidewall Return Grilles - Steel - Series SRH

- ✦ The series SRH is designed for applications requiring a steel border. The blades of the SRH are constructed from steel
- ✦ This economical series of return grilles and registers is available a number of borders to integrate into a wide range of ceiling systems
- ✦ Series SRH is an excellent choice for exhaust and return applications

Steel/SRH - Grilles	
Surface Mount	SRH-1
	SRH-H-1 - Hinged Core
T-bar Lay-in Modules	SRH-6



Model HDRH

Heavy Duty Grilles - Sidewall Return - Extruded Aluminum - 1 1/3" Blade Spacing - Model HDRH

- ★ The series HDRH is an excellent choice for projects that require a grille or register to withstand moderate physical abuse. Applications for the series HDRH include common areas in schools, hospitals, and other high traffic areas
- ★ The series HDRH is made from aluminum material equal or greater than 14-gauge steel. Outer borders are thicker than those of standard commercial grilles and registers. Deflector blades are assembled in the outer border using heavy alloy metal screws for rigidity
- ★ Series HDRH is an excellent choice for exhaust or return applications in heavy traffic public areas

Louver Grille Surface Mount	
Surface Mount	HDRH-1



Series 4002R

Return Grilles & Registers - Extruded Aluminum - Fixed Blades 0° or 45° - Series 4002R

- ★ The series 4002R return grilles and registers are designed to match the 4000 series supply models. These units are constructed of heavy aluminum. The 4002RS is constructed with a heavy steel border and steel deflector blades
- ★ The deflector blades for both the series 4002R and 4002RS are fixed and available in 0° or 45° settings
- ★ Series 4000R and 4000RS offer the advantage of a uniform appearance when selected with the series 4000 supply grilles and registers

	Steel	Aluminum
Vertical Blades	V4002RS-1	V4002R-1
Horizontal Blades	H4002RS-1	H4002R-1

Series DG



Model DGCO



Model DGDF

Door Grilles - Exhaust & Return - Extruded Aluminum - Series DG

- ★ Series DG door grilles are designed to transfer air through doors or walls. The DG Series include "V" shaped louvers providing a sight-proof return or exhaust grille regardless of the viewing angle
- ★ The series DG is available with a number of options include a light-proof option (model DGLP), surface mounting applications, and door mounting (model DGDF)
- ★ Series DG offers a number of solutions for your door and air transfer applications

Series DG	
Core Only	DGCO
Single Frame Flange	DGSF
Double Flange Frame - Telescoping	DGDF
Double Flange Frame - Light Resistant	DGLP

Sidewall Grille - Steel Gym Grille - Series 4500

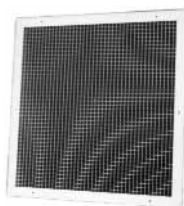


Series 4500

- ★ The series 4500 is a heavy duty return gym grille. This unit is designed for applications such as gymnasiums and public areas. The border and deflection blades are heavy gauge steel and built to withstand moderate physical abuse
- ★ The series 4500 is available with 0° deflection or for more sight-proof application, 38° deflection (model 4538-1)
- ★ Series 4500 is an excellent choice for return or exhaust applications in high traffic applications where extra protection for the grille is required

Grilles	
Surface Mount	4500-1 0° Deflection - Horizontal Fixed Blades
	4538-1 38° Deflection - Horizontal Fixed Blades

GAR - Grilles and Registers

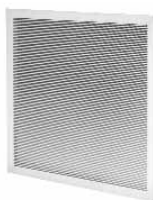


Series CC5

Sidewall/Ceiling Return Grilles & Registers - Extruded Aluminum/Aluminum - Series CC5/CC15/CC1

- ✱ The series CC5 cubed core return and exhaust grilles are designed to provide low pressure drops and low sound levels
- ✱ The series CC5 is available with a number of options and accessories such as a 1" thick core (model CC1) to reduce sight into the grille
- ✱ Series CC5 is an excellent choice for applications requiring minimum pressure drop and noise in return and exhaust applications

	Grilles		
	CC5 - Cubed Core 1/2" x 1/2" x 1/2" Core	CC15 - Cubed Core 1/2" x 1/2" x 1" Core	CC1 - Cubed Core 1" x 1" x 1" Core
Surface Mount	CC5-1	CC15-1	CC1-1
T-bar Lay-in	CC5-6	CC15-6	CC1-6
Concealed Spline	CC5-7	CC15-7	CC1-7
Tegular Ceiling T-bar Lay-in	CC5-8	CC15-8	CC1-8
Donn Fineline Lay-in	CC5-9	CC15-9	CC1-9
T-bar Lay-in Channel Frame	CC5 TBC-6		
Removable Core	CC5R-6		



Model RP

Sidewall Ceiling Return Grille - Perforated Face - Aluminum - Model RP

- ✱ The series RP perforated face return or exhaust grilles are designed to blend into the ceiling system and provide a clean, uncluttered architectural appearance
- ✱ The series RP grilles and registers are available with a wide range of options and accessories
- ✱ Series RP is of aluminum construction and ideal for return and exhaust applications requiring low pressure drops and low sound

Sidewall Ceiling Return Grille - Perforated Face
RP-1



Series RC

Removable Core Grilles & Registers - Extruded Aluminum - Series RC - Revers-A-Core®

- ✱ The series RC Revers-A-Core® supply grilles and registers combine rugged aluminum construction, a clean architectural design, and an extremely flexible air pattern versatility
- ✱ The fixed louvered core is removable from the face and can be rotated or reversed to achieve any of four different air deflection patterns
- ✱ Series RC grilles and registers is an excellent selection for applications calling for a distinctive appearance and high performance

Single Deflection		Double Deflection	
Curved Border	41C-1	Curved Border	42C-1
Flat Border	41F-1	Flat Border	42F-1
Curved Border - Removable Inner Frame	RC41C-1	Curved Border - Removable Inner Frame	RC42C-1

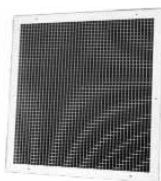


Series RHF

Filter Return Grilles - Aluminum - Series RHF

- ✱ The series RHF return filter grilles combine the advantages of corrosion resistant construction and durability with attractive design, solid performance, and competitive pricing
- ✱ The series RHF is designed for 1" or 2" thick filters (by others) and includes a hinged face with 1/4" turn fasteners for quick filter changes
- ✱ Series RHF is an excellent choice for exhaust and return applications requiring a filter

	Roll Formed Aluminum	Extruded Aluminum	Steel
Surface Mount	RHF-1 G/S (Grille Size)	RHEF-1 G/S (Grille Size)	SRHF-1 G/S (Grille Size)
	RHF-1 F/S (Filter Size)	RHEF-1 F/S (Filter Size)	SRHF-1 F/S (Filter Size)
T-bar Lay-in	RHF-6 G/S (Grille Size)		SRHF-6 G/S (Grille Size)
	RHF-6 F/S (Filter Size)		SRHF-6 F/S (Filter Size)

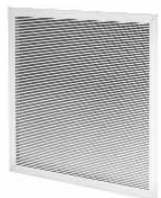


Series CC5F

Filter Return Grilles - Cubed Core - Aluminum - Series CC5F

- ✦ The series CC5F cubed core return and exhaust filter grilles are designed to provide low pressure drops and low sound levels
- ✦ The series CC5F is designed for 1" thick filters (by others) and includes a hinged face with 1/4" turn fasteners for quick filter changes
- ✦ Series CC5F is an excellent choice for applications requiring minimum pressure drop and noise in return and exhaust applications

Return Grilles	
Surface Mount	CC5F-1 G/S Grille Size
	CC5F-1 F/S Filter Size
T-bar Lay-in	CC5F-6 G/S Grille Size
	CC5F-6 F/S Filter Size



Series RPF

Filter Return Grilles - Aluminum - Series RPF

- ✦ The series RPF perforated face return or exhaust filter grilles are designed to blend into the ceiling system and provide a clean, uncluttered architectural appearance
- ✦ The series RPF is designed for 1" thick filters (by others) and includes a hinged face with 1/4" turn fasteners for quick filter changes
- ✦ Series RPF is of aluminum construction and ideal for return and exhaust filter applications requiring low pressure drops and low sound

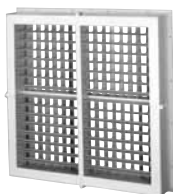
Perforated Face Return Filter	
Surface Mount	RPF-1 G/S (Grill Size)
	RPF-1 F/S (Filter Size)
T-bar Lay-in	RPF-6 G/S (Grill Size)

IND



**INDUSTRIAL/
HIGH CAPACITY DEVICES**

INDUSTRIAL/
HIGH CAPACITY DEVICES



Series 4100
Series 4200
Series 4300

Industrial/High Capacity Grilles & Registers - Modular Frame/Multi-Core - Aluminum Series 4100, 4200, 4300

- ★ Series 4100, 4200, and 4300 industrial grilles and registers are engineered specifically for high capacity industrial air distribution applications where performance is a priority
- ★ The series 4100, 4200, and 4300 models are designed for ceiling and high sidewall installation and are available with of choice of three collar depths
- ★ Series 4100, 4200, and 4300 are excellent selections for industrial applications requiring high capacity and performance

Series 4100	Vertical Blades	Horizontal Blades
Single Deflection	V4152	H4152
Double Deflection - Front Blades	V4154	H4154
Single Deflection - Inverted Frame	V4152 IF	H4152 IF
Double Deflection - Inverted Frame - Front Blades	V4154 IF	H4154 IF
Single Deflection - w/Trunk Latch Frame	V4152-TLF	H4152-TLF
Double Deflection - Front Blades - w/Trunk Latch Frame	V4154-TLF	H4154-TLF
Modular Frame - Single Deflection	V4152MF	H4152MF
Modular Frame - Double Deflection	V4154MF	H4154MF

Series 4200	Vertical Blades	Horizontal Blades
Single Deflection	V4252	H4252
Double Deflection - Front Blades	V4254	H4254
Single Deflection - Inverted Frame	V4252 IF	H4252 IF
Double Deflection - Inverted Frame - Front Blades	V4254 IF	H4254 IF
Single Deflection - w/Trunk Latch Frame	V4252-TLF	H4252-TLF
Double Deflection - Front Blades - w/Trunk Latch Frame	V4254-TLF	H4254-TLF
Modular Frame - Single Deflection	V4252MF	H4252MF
Modular Frame - Double Deflection	V4254MF	H4254MF

Series 4300	Vertical Blades	Horizontal Blades
Single Deflection	V4352	H4352
Double Deflection - Front Blades	V4354	H4354
Modular Frame - Single Deflection	V4352MF	H4352MF
Modular Frame - Double Deflection	V4354MF	H4354MF

Gang Operator for Series 4100, 4200, & 4300	Vertical Blades	Horizontal Blades
Gang Operator	GOV	GOH

Airfoil Blades for Series 4100 & 4200	
Optional Airfoil Blades (Mounted)	AB

	Collar	Blades	Center
4100	4 3/8"	1 1/2"	1 1/2"
4200	1 7/8"	1 1/2"	1 1/2"
4300	7"	3"	3"





Model RL

Industrial/High Capacity Drum Louver - Supply - Extruded Aluminum - Series RL Roto-Louver

- ✦ The series RL Roto-Louver outlets are engineered for high capacity, long throw applications such as sports arenas, gymnasiums, conference centers, industrial plants and other large spaces.
- ✦ The series RL units have the flexibility to change throw direction and spread of the discharge jet with individually adjustable deflection blades and a rotating cylindrical drum assembly.
- ✦ Series RL Roto-Louver outlets are an excellent choice for high capacity, long throw applications. These units offer flexibility allowing installation in a variety of applications.

Roto-Louver
RL
RL-DF Dual Flow
RL-GO Gang Operator



Model JA-1

High Capacity - Supply - Round Neck - Steel - Series JA - Jet*Aire

- ✦ Jet*Aire Diffusers offer an economical solution to high capacity air distribution applications requiring long throw distances. This diffuser can be effectively applied to large space applications such as civic centers, auditoriums, and arenas.
- ✦ Units are available as a single diffuser, or multiple diffusers mounted in a panel.
- ✦ Jet*Aire Diffusers are an excellent choice for high capacity, long throw applications. The modular design of the Jet*Aire diffusers allows selection for a wide range of air volumes

Jet*Aire	
JA-1 Surface Mount - Single Unit	JA-3P Panel Mounted - 3 Units
JA-1P Panel Mounted - 1 Unit	JA-4P Panel Mounted - 4 Units
JA-2P Panel Mounted - 2 Units	JA-1EX Exposed Duct Mount - No Panel



Model OAL

Outside Air Louvers - Extruded Aluminum - Series OAL

- ✦ Series OAL stationary outside air louvers are fixed multiple blade air distribution devices designed for installation in building exterior wall openings
- ✦ The series OAL inhibit the entrance of wind, rain, snow, sleet, sand, birds, insects, and airborne debris while serving to enhance the building's exterior appearance
- ✦ Each series OAL blade has a 45° face deflection and includes a water baffle with a 1/4" return bend
- ✦ Series OAL blades also overlap to improve the weather resistance of the louver

Type "C" Channel Frame	Type "F" Flange Frame
OAL2C 2" Depth	OAL2F 2" Depth
OAL4C 4" Depth	OAL4F 4" Depth



Model MPK

Industrial/High Capacity Punkah Louver Global Adjustment - Aluminum - Model MPK

- ✦ Model MPK discharges a high-velocity jet that can be directed to condition a specific space or area
- ✦ The model MPK is constructed using a felt gasket that allows smooth movement of the inner core to direct air flow and provides a tight seal to prevent air leakage
- ✦ An optional aperture damper is available which includes an adjustment knob and stainless steel linkage and tension springs for maximum corrosion protection



Model MRDD

Architectural - High Velocity - Round - Series MRD

- ✦ An excellent selection for architecturally pleasing applications requiring an adjustable outlet with high capacities and long throw.
- ✦ Heavy gauge aluminum construction
- ✦ Available in single and double deflection
- ✦ Unit is designed for surface mounting with concealed fastening

Single Deflection	Double Deflection
MRDS	MRDD



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InfoSource CD

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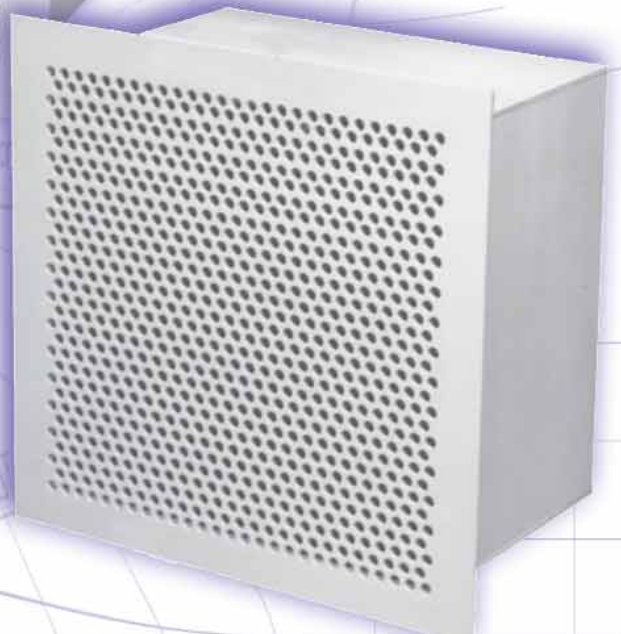


Web Site: www.metalaire.com

METALAIRE leads the industry with a web site that contains all the product literature and performance data needed to design your air distribution system. Our web site includes all our submittals, catalogs, installation manuals, as well as as other valuable information to aid you in air distribution design.



GOING



SECURITY PRODUCTS

SECURITY PRODUCTS





Model SGSP

Maximum Security Grilles - Square Holes/Mesh Face - Series SGSP

- ✦ The series SGSP is a supply maximum security steel grille and has a face plate perforated with 2" square holes separated by 1" wide fret bars. A woven steel mesh screen is inserted directly behind the face panel and is sandwiched by a steel backup plate
- ✦ The series SGSP is designed for sidewall applications. A rear operated opposed blade damper is available as an option
- ✦ Series SGSP is an excellent choice for maximum security applications such as federal correctional facilities, state and local prisons, psychiatric hospitals, and manufacturing plants where security is of paramount concern. This grille can be used for both supply and return applications



Model SGRP

Maximum Security Grilles - Round Perforated Holes - Series SGRP

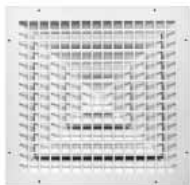
- ✦ The series SGRP is a supply maximum security steel grille and has round holes and a perforated face plate
- ✦ The series SGRP is designed for sidewall applications. A rear operated opposed blade damper is available as an option
- ✦ Series SGRP is an excellent choice for maximum security applications such as federal correctional facilities, state and local prisons, psychiatric hospitals, and manufacturing plants where security is of paramount concern. This grille can be used for both supply and return applications



Model SGRH

Minimum Security Grilles - Fixed Louver Face - Series SGRH

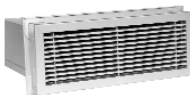
- ✦ The series SGRH is return, minimum security grille constructed with heavy gauge steel louvers that are reinforced and welded to a steel sleeve
- ✦ The series SGRH is designed for sidewall applications. A rear operated opposed blade damper is available as an option
- ✦ Series SGRH is an excellent choice for a return grille in minimum security, supervised areas. Applications for the series SGRH include minimum security areas in federal correctional facilities, state and local prisons, psychiatric hospitals, and manufacturing plants. The SGRH is also an excellent choice for public areas to resist vandalism



Model SG5500S

Minimum Security Grilles - Steel Diffuser and Face Plate - Series SG5500S

- ✦ The series SG5500S is a supply, minimum security steel ceiling diffuser and features a steel lattice face panel attached to the high performing Series 5500S steel supply diffuser
- ✦ This surfaced mounted diffuser is available with 1, 2, 3, or 4 way air patterns
- ✦ Series SG5500S is an excellent choice for minimum security, supervised areas requiring a ceiling mounted diffuser. Applications for the SG5500S include minimum security areas in federal correctional facilities, state and local prisons, psychiatric hospitals, and manufacturing plants. The SG5500S is also an excellent choice for public areas to resist vandalism



Model SG2000

Minimum Security Grilles - 1" Borders - 7/32" Bars - 1/2" Centers - Series SG2000

- ✦ The series SG2000 is a return, minimum security grille constructed with heavy gauge aluminum louvers that are reinforced and welded to a steel sleeve
- ✦ The series SG2000 is designed for sidewall applications. A rear operated opposed blade damper is available as an option
- ✦ Series SG2000 is an excellent choice for a return grille in minimum security, supervised areas. Applications for the series SG2000 include minimum security areas in federal correctional facilities, state and local prisons, psychiatric hospitals, and manufacturing plants. The SG2000 is also an excellent choice for public areas to resist vandalism

Extruded Aluminum		
Deflection	Single Face	Dual Face (Transfer Grille)
0°	SG2000-1	SG2000-2
15°	SG2015-1	SG2015-2
30°	SG2030-1	SG2030-2

Other Security Grilles	
Lattice Face (Min.)	SGLF 4" - 12" or 13" - 16" Sleeve
Wire Mesh Face (Min.)	SGWM 4" - 12" or 13" - 16" Sleeve
Duct Bar Assemblies - Welded in Sleeve	SGDB 4" - 12" or 13" - 16" Sleeve
Duct Bar Assemblies - Welded in Mounting Frame	SGDF

Accessories for Security Grilles	
BSA	Bolted Steel Angles
DS-AL	Debris Screen for SG 2000-1 1/4" x 1/4" Wire Mesh - Aluminum
DS-GS	Debris Screen for SG 2000-1 1/4" x 1/4" Wire Mesh - Galvanized Steel
DS-SS	Debris Screen for SG 2000-1 1/4" x 1/4" Wire Mesh - Stainless Steel
IS	Insect Screen
LSA	Loose Steel Angles
Optional screw holes	
Optional security screws	
SAB	Steel Anchor Bars
SBR	Duct Bars
SG5LFP	Steel Face Plate for SG5500S (Min.)
SGLFO	Steel Lattice Face Plate
SG-OBDA	Aluminum Dampers for Grilles
Steel Angles	
WAF	Companion Flanges (Welded Angle Frames)
WSA	Welded Steel Angles (Welded to Grille Sleeve)
WS	Wall Sleeve



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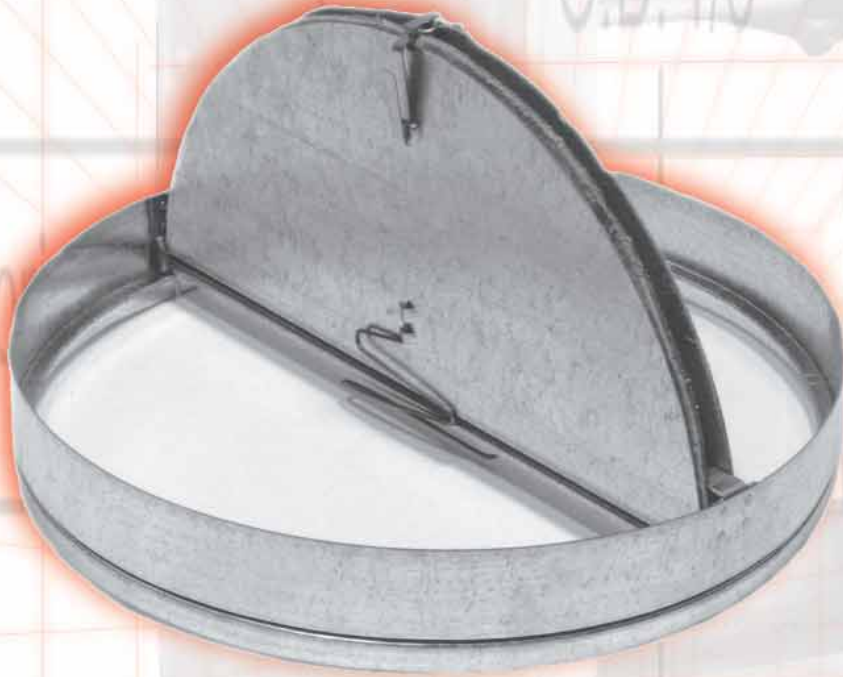


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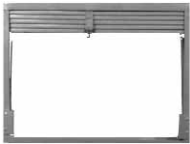
FFR



FIRE RATED PRODUCTS

FFR

T-Bar Module = 24 x 24



Model FD11 AH

Thinline 2" Frames - Blades in Airstream - Series FD11 A

- ★ 1 1/2 hour UL fire resistance
- ★ Rated for use in 2 hour fire partitions
- ★ Heavy duty rollformed steel construction
- ★ Meets NFPA 90a requirements for vertical or horizontal mounts
- ★ 2" deep frame
- ★ Optional 12" deep sleeve

Horizontal Application	Vertical Application
FD11 AH	FD11 AV



Model FD12 AH

Standard 4 1/4" Frames - Blades in Airstream - Series FD12 A

- ★ 1 1/2 hour UL fire resistance
- ★ Rated for use in 2 hour partitions
- ★ Heavy duty rollformed steel construction
- ★ Meets NFPA 90a requirements for vertical or horizontal mounts
- ★ 4 1/4" deep frame
- ★ Optional 12" deep sleeve

Horizontal Application	Vertical Application
FD12 AH	FD12 AV

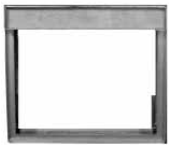


Model FD11 BH

Thinline 2" Frames - Blades out of Airstream - Series FD11 B

- ★ 1 1/2 hour UL fire resistance
- ★ Rated for use in 2 hour fire partitions
- ★ Heavy duty rollformed steel construction
- ★ Meets NFPA 90a requirements for vertical or horizontal mounts
- ★ 2" deep frame
- ★ Optional 12" deep sleeve

Horizontal Application	Vertical Application
FD11 BH	FD11 BV



Model FD12 BH

Standard 4 1/4" Frames - Blades out of Airstream - Series FD12 B

- ★ 1 1/2 hour UL fire resistance
- ★ Rated for use in 2 hour partitions
- ★ Heavy duty rollformed steel construction
- ★ Meets NFPA 90a requirements for vertical or horizontal mounts
- ★ 4 1/4" deep frame
- ★ Optional 12" deep sleeve

Horizontal Application	Vertical Application
FD12 BH	FD12 BV



Model FD11 C

Thinline 2" Frames - Round Inlet/Outlet - Series FD11 C

- ★ 1 1/2 hour UL fire resistance
- ★ Rated for use in 2 hour fire partitions
- ★ Heavy duty rollformed steel construction
- ★ Meets NFPA 90a requirements for vertical or horizontal mounts
- ★ 2" deep frame
- ★ Optional 12" deep sleeve

Horizontal Application	Vertical Application
FD11 CH	FD11 CV



Model FD12 C

Standard 4 1/4" Frames - Round Inlet/Outlet - Series FD12 C

- ★ 1 1/2 hour UL fire resistance
- ★ Rated for use in 2 hour partitions
- ★ Heavy duty rollformed steel construction
- ★ Meets NFPA 90a requirements for vertical or horizontal mounts
- ★ 4 1/4" deep frame
- ★ Optional 12" deep sleeve

Horizontal Application	Vertical Application
FD12 CH	FD12 CV

Model
5500S-6 FRS**Square/Rectangular Louver Face Ceiling Diffusers with Radiation Damper for T-bar Lay-in - Series 5500S FRS**

- ★ Three hour UL classified ceiling diffuser system
- ★ Complete factory package - diffuser, damper, & blanket
- ★ Factory assembled — Ready to install

Model
5700-6 FRS**Square Face Diffusers - Round Neck 2-Cone with Radiation Damper for T-bar Lay-in - Series 5700 FRS**

- ★ Three hour UL classified ceiling diffuser system
- ★ Complete factory package - diffuser, damper, & blanket
- ★ Factory assembled — Ready to install

Model
5800-6 FRS**Square Face Diffusers - Round Neck 3-Cone with Radiation Damper for T-bar Lay-in - Series 5800 FRS**

- ★ Three hour UL classified ceiling diffuser system
- ★ Complete factory package - diffuser, damper, & blanket
- ★ Factory assembled — Ready to install
- ★ Optional volume damper on select models

Supply	
Fixed Volume	Adjustable Volume
5800-6 FRS	5800-6 FRSA

Model
7500-6 FRS**Perforated Ceiling Diffuser - Face Mounted Adjustable Pattern Controller with Radiation Damper for T-bar Lay-in - Series 7500 FRS**

- ★ Three hour UL classified ceiling diffuser system
- ★ Complete factory package - diffuser, damper, & blanket
- ★ Factory assembled — Ready to install
- ★ Optional volume damper on select models

Flush Face	Supply		Return
	Fixed Volume	Adjustable Volume	Fixed Volume
Round Neck	7500-6 FRS	7500-6 FRSA	7500R-6 FRS
Square Neck	7550-6 FRS	7550-6 FRSA	7550R-6 FRS

Drop Face	Supply		Return
	Fixed Volume	Adjustable Volume	Fixed Volume
Round Neck	7500-6 DF FRS	7500-6 DF FRSA	7500R-6 DF FRS
Square Neck	7550-6 DF FRS	7550-6 DF FRSA	7550R-6 DF FRS

For more product information visit us at www.metalair.com



Model
7600-6 FRS

Perforated Ceiling Diffuser - Curved Blade - Neck Mounted Pattern Controller with Radiation Damper for T-bar Lay-in - Series 7600 FRS

- ★ Three hour UL classified ceiling diffuser system
- ★ Complete factory package - diffuser, damper, & blanket
- ★ Factory assembled — Ready to install

	Flush Face			Drop Face	
	Supply	Return		Supply	Return
Round Neck	7600-6 FRS	7600R-6 FRS	Round Neck	7600-6 DF FRS	7600R-6 DF FRS
Square Neck	7650-6 FRS	7650R-6 FRS	Square Neck	7650-6 DF FRS	7650R-6 DF FRS



Model
CC5 FRS

Sidewall/Ceiling Return Grilles & Registers with Radiation Damper for T-bar Lay-in - Series CC5 FRS

- ★ Three hour UL classified ceiling diffuser system
- ★ Complete factory package - diffuser, damper, & blanket
- ★ Factory assembled - Ready to install



Series
PRTB FRS

Perforated Screen - Non-Ducted - Return with Radiation Damper for T-bar Lay-in - Series PRTB FRS

- ★ Three hour UL classified ceiling diffuser system
- ★ Complete factory package - diffuser, damper, & blanket
- ★ Factory assembled - Ready to install

Aluminum	Steel
PRTB FRS	SPRTB FRS



Model RD-10

Round Radiation Dampers - Series RD-10

- ★ Three hour UL fire resistant classification
- ★ Approved for use with flexible duct, steel duct, and non-ducted supply/return applications
- ★ Heavy duty rollformed steel construction
- ★ Optional adjustable volume control

Fixed Volume	Adjustable Volume
RD-10	RD-10A



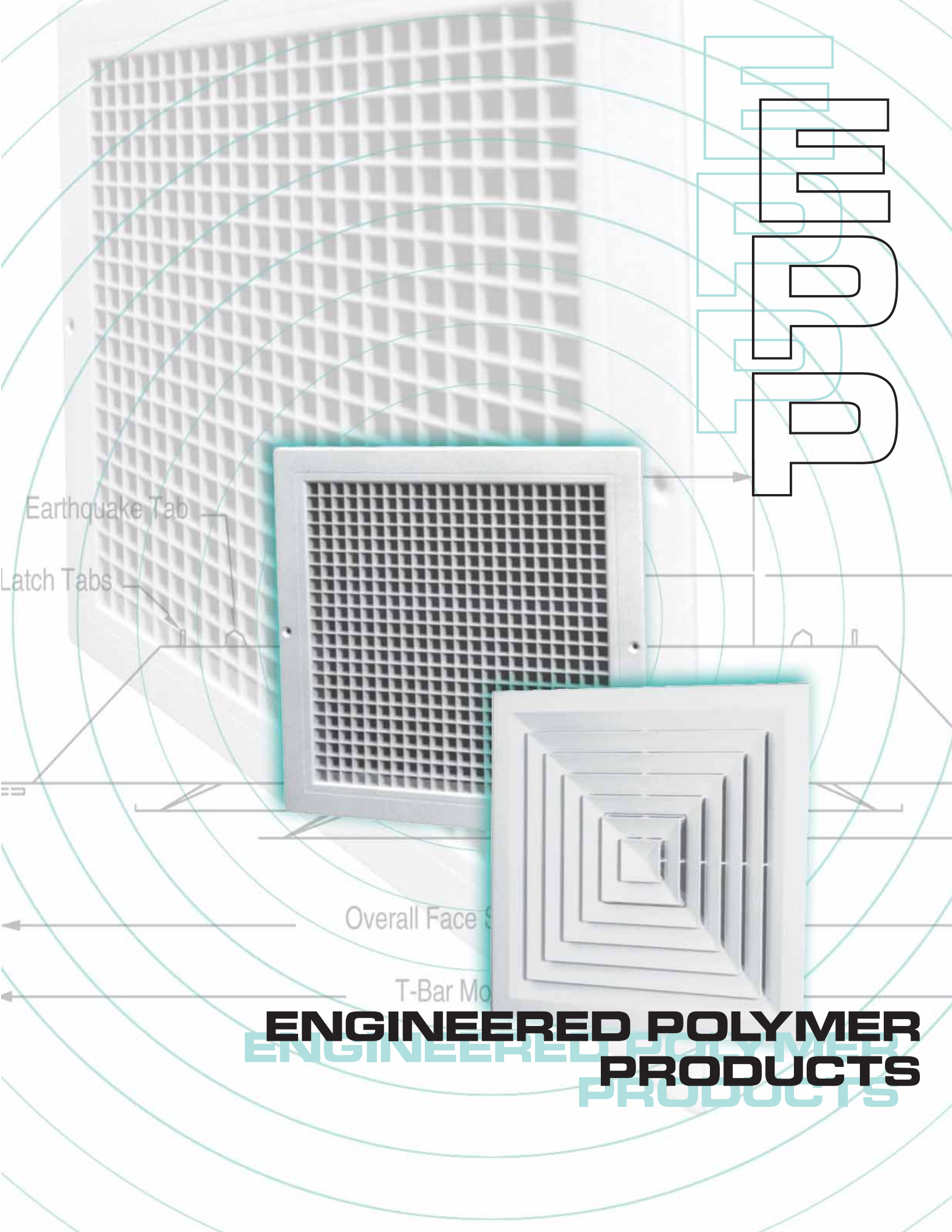
Model RD-20

Square Radiation Dampers - Series RD-20

- ★ Three hour UL fire resistant classification
- ★ Approved for use with flexible duct, steel duct, and non-ducted supply/return applications
- ★ Heavy duty rollformed steel construction
- ★ Optional adjustable volume control

Fixed Volume	Adjustable Volume
RD-20	RD-20A

NEW



Earthquake Tab

Latch Tabs

Overall Face S

T-Bar Mo

ENGINEERED POLYMER PRODUCTS



Model EP5000

Engineered Polymer Ceiling Diffusers - Louver Face - Series EP5000

- ✦ For use in ceiling applications which call for a clean, smooth appearance, lightweight, corrosion resistant, and ease of installation
- ✦ For flush surface mount or inverted T-bar Lay-in ceiling grid systems

Surface Mount	T-bar Lay-in
EP5000-1	EP5000-6



Model EPCC5

Engineered Polymer Cube Core - Eggcrate Return/Exhaust - Series EPCC5

- ✦ Attractive 1/2" x 1/2" grid by 1/2" deep design
- ✦ Available for non-ducted applications
- ✦ Can be used with an aluminum transition for use with round duct.

Surface Mount
EP-CC5-1



Model EPRH

Engineered Polymer Grilles & Registers - Louver Face Return/Exhaust - Series EPRH

- ✦ Fixed 45° angled deflecting blades provide a vision obscured appearance
- ✦ Horizontal 45° angled fixed vanes are on 3/4" centers



Ceiling Framing

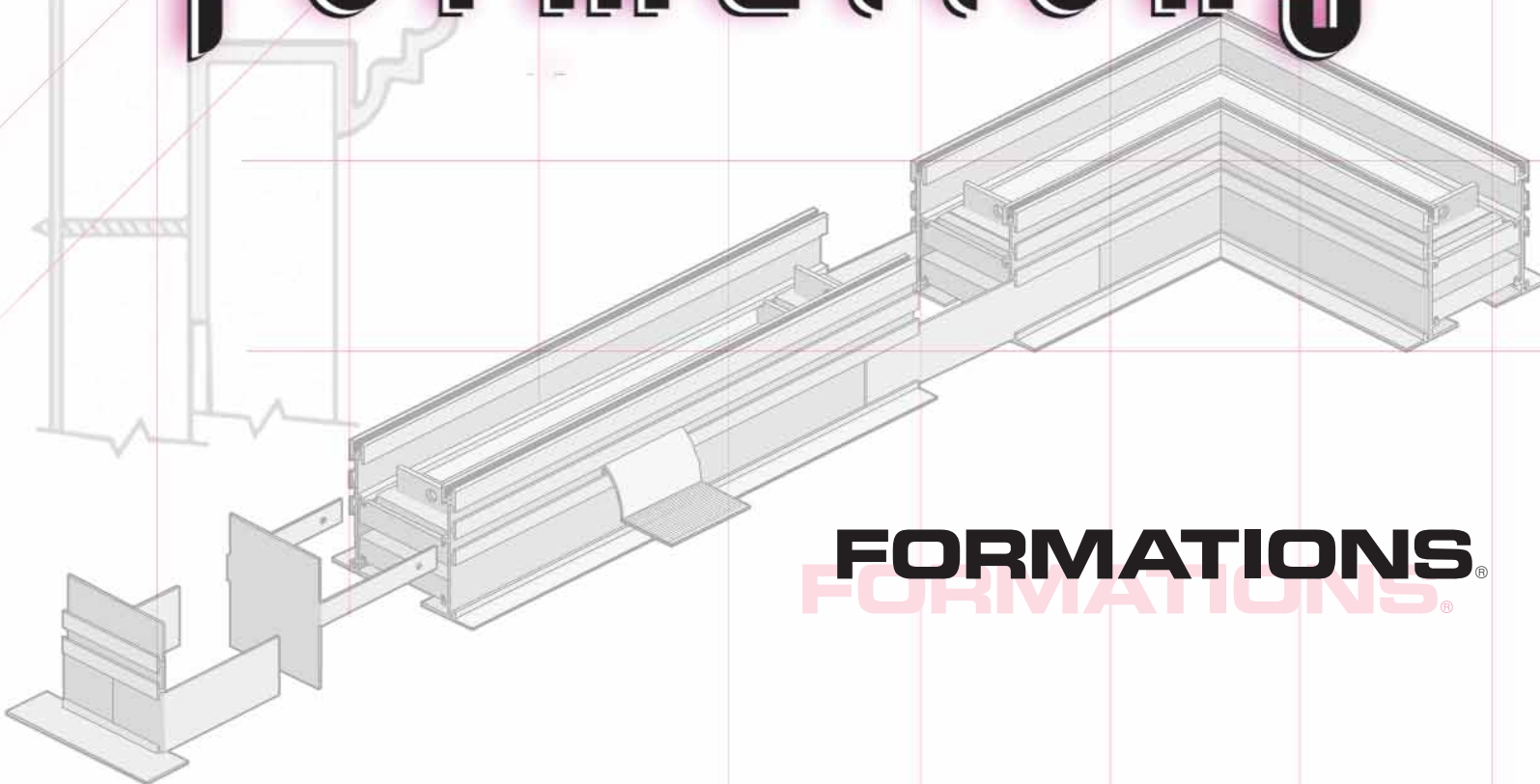
F4

F1

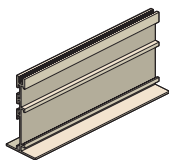
FOR

formations™

FORMATIONS®

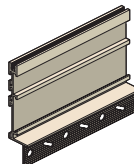


Border Styles



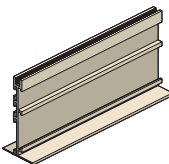
Border A

Our most versatile Formations® border option, Border A is ideal for either hard or acoustical ceilings, as well as any sidewall application. Border A provides you with total freedom to incorporate bends and curves in any direction, which means you can select any air flow pattern for maximum comfort and design without restrictions.



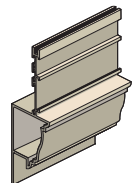
Border B

For beautifully smooth transitions, Border B lets you hide Formations® where ceilings and walls intersect. Because a speedy installation saves everyone time and money, we've incorporated a specially designed leg, to ensure a quick, professional finish.



Border C

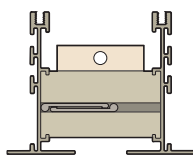
Invisible by design, Border C is a great option when you choose to completely hide your Formations® diffuser. Cover the flange of Border C with drywall tape and spackle for a totally concealed installation. All that's visible is a very sleek, beautiful black line.



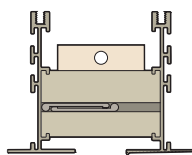
Border D
Patent # 6,648,752

When you want to go beyond concealing to creating a touch of elegance, Border D® provides a fluid integration with wall and ceiling transitions by uniquely disguising the diffuser as a design element. Crown molding, wood trim, marble finish or any of a variety of options... Border D® provides a clean, elegant style you'll only find with Formations®.

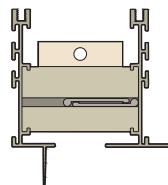
Combination Border Options



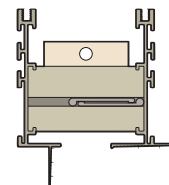
Border AA



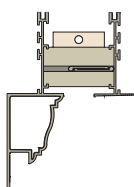
Border AC



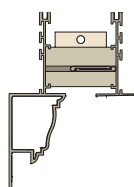
Border BA



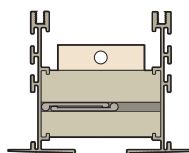
Border BC



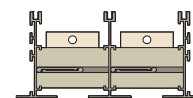
Border DC



Border DA

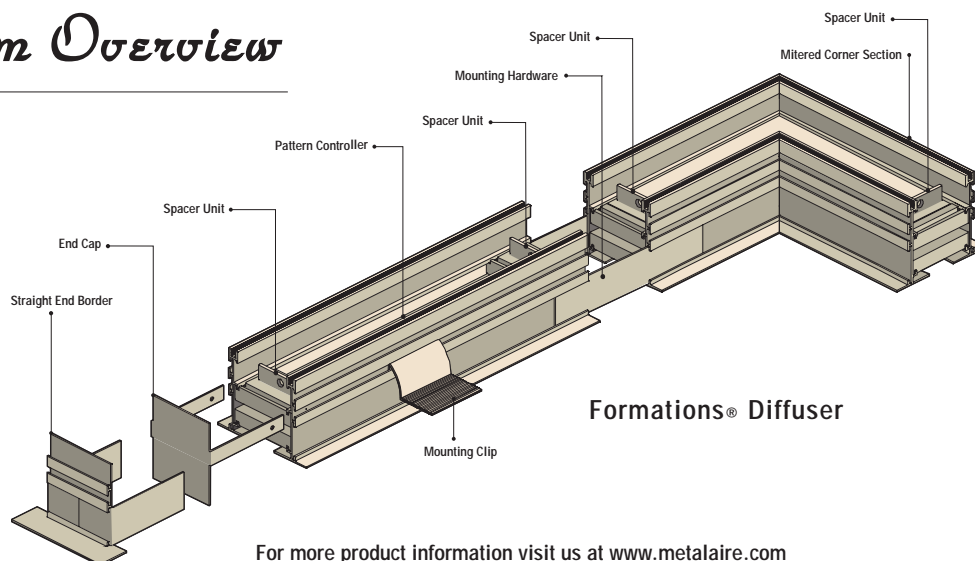


Border CC

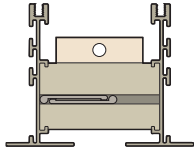


Border AA
2 Slot

System Overview



For more product information visit us at www.metalair.com



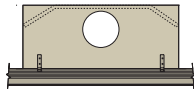
Series FAL

Formations® Linear: Continuous - Series FAL

- ★ Formations® Linear satisfies the most demanding engineering and architectural criteria, providing both superior air distribution performance and sculptured elegance
- ★ Specially designed air pattern controllers are easily adjustable to satisfy a myriad of applications
- ★ Available in 24" increments, pattern controllers allow the air flow to be directed horizontally, to the left, right or vertically
- ★ Formations® Linear is available for straight and curved applications

FAL				
1" Slot Width	1.5" Slot Width	2" Slot Width	2.5" Slot Width	3" Slot Width
FAL-10	FAL-15	FAL-20	FAL-25	FAL-30

FALC (for concealed hanger brackets)				
1" Slot Width	1.5" Slot Width	2" Slot Width	2.5" Slot Width	3" Slot Width
FALC-10	FALC-15	FALC-20	FALC-25	FALC-30



Series FAP

Formations® Plenum - Standard/Hemmed - Series FAP

- ★ The FAP (non-insulated) and FAPI (insulated) boot plenums are designed to connect the Formations® linear slot diffusers to the ducted supply or return system
- ★ Units provide an even distribution of air into the plenum to maximize induction and occupant comfort
- ★ FAPI boot plenum is fully insulated including the end caps
- ★ Units can be used for both ducted and plenum returns
- ★ Factory tested and manufactured FAP/FAPI plenums are built to fit securely into the Formations® plenum diffusers, reducing installation cost and minimizing leakage
- ★ Available with an optional quadrant locking damper
- ★ Models FAP/FAPI are shipped separate from Formations® Linear and require field attachment
- ★ Available with hemmed plenum (models FAPH/FAPHI) for use with FALC concealed mounting

	(For FAL) Formations® Plenum				
	1" Slot Width	1.5" Slot Width	2" Slot Width	2.5" Slot Width	3" Slot Width
Non-Insulated Plenums	FAP-10	FAP-15	FAP-20	FAP-25	FAP-30
Insulated Plenums	FAPI-10	FAPI-15	FAPI-20	FAPI-25	FAPI-30

	(For FALC) Hemmed Formations® Plenum				
	1" Slot Width	1.5" Slot Width	2" Slot Width	2.5" Slot Width	3" Slot Width
Non-Insulated Plenums	FAPH-10	FAPH-15	FAPH-20	FAPH-25	FAPH-30
Insulated Plenums	FAPHI-10	FAPHI-15	FAPHI-20	FAPHI-25	FAPHI-30



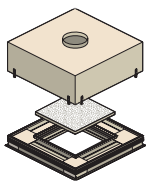
Series FTS

Formations® Tee System - Series FTS

- ★ Formations® Tee system includes model FAL and a plenum
- ★ Available in 2', 4', or 5' lengths, with an internal plenum, the Formations® Tee system ensures your diffuser fits tightly into your 15/16", 9/16", or bolt-slot suspension system for a sleek, clean appearance
- ★ A perfect choice for installation in an acoustical ceiling, the Formations® Tee system is easily repositioned, providing great flexibility
- ★ Manufactured in pre-engineered lengths, the Tee system is available in 1", 1.5", and 2" slot widths

	15/16" & 9/16" Tee System		
	1" Slot Width	1.5" Slot Width	2" Slot Width
Non-Insulated Plenums	FTS-10	FTS-15	FTS-20
Insulated Plenums	FTSI-10	FTSI-15	FTSI-20

	Bolt-Slot Tee System		
	1" Slot Width	1.5" Slot Width	2" Slot Width
Non-Insulated Plenums	FTSB-10	FTSB-15	FTSB-20
Insulated Plenums	FTSBI-10	FTSBI-15	FTSBI-20



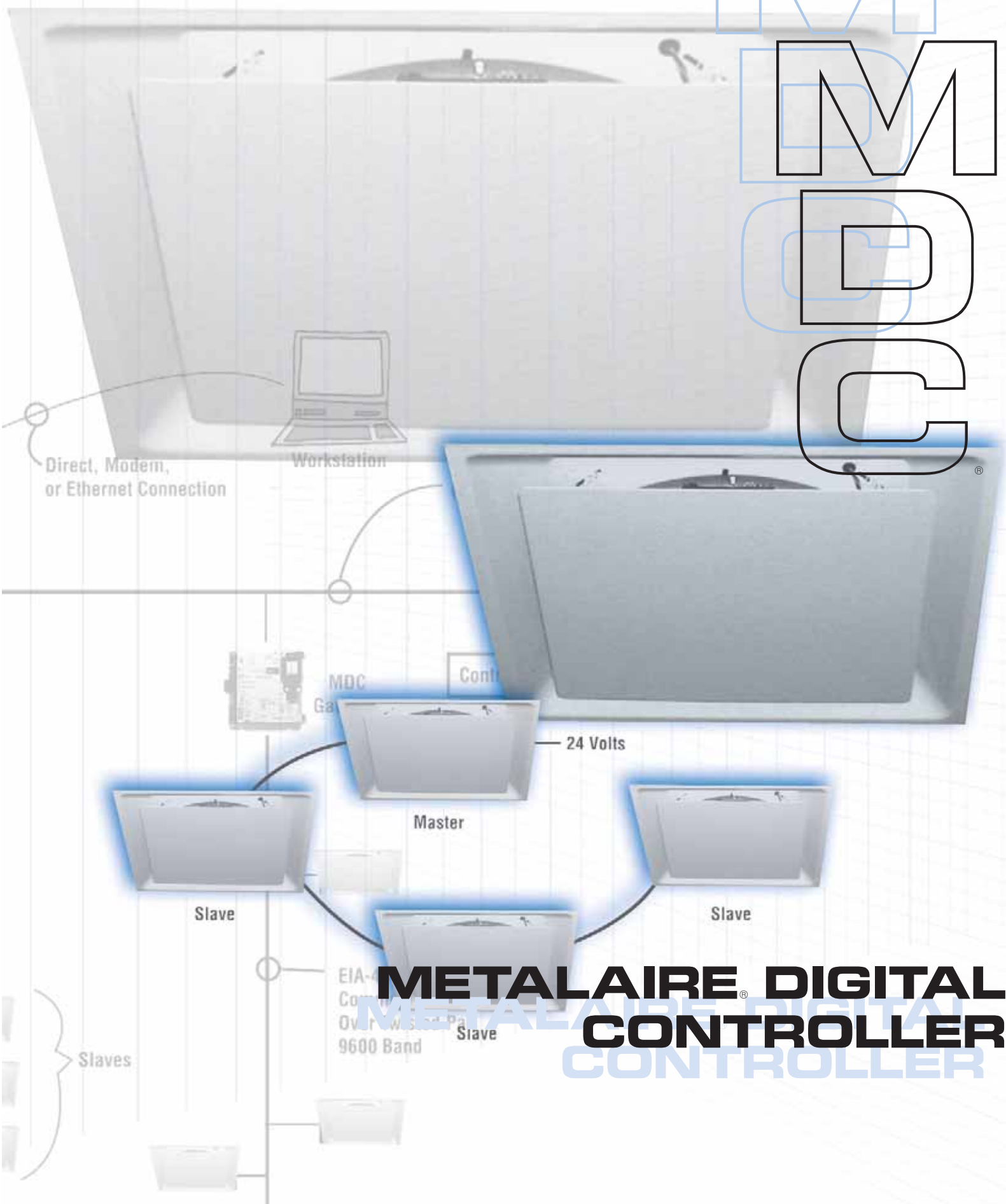
Series FAI

Formations® Integra - Supply/Return - Series FAI

- ★ Laying in an acoustical tee bar or hard ceiling, your specified ceiling material actually becomes the face of the Integra diffuser, providing beautiful design integrity
- ★ Integra is available in 1", 1.5", and 2" slot widths
- ★ Available for either supply or return solutions and can be adjusted for one, two, three or four-way directional air flow
- ★ Unit can be adjusted for horizontal or vertical air patterns

	Supply			Non Ducted Return		
	1" Slot Width	1.5" Slot Width	2" Slot Width	1" Slot Width	1.5" Slot Width	2" Slot Width
Non-Insulated Plenums	FAI-10	FAI-15	FAI-20	FAIR-10	FAIR-15	FAIR-20
Insulated Plenums	FAII-10	FAII-15	FAII-20			

MDC



MDC - METALAIRE Digital Control Diffuser 7/2006



MDC® - METALAIRE® Digital Control Diffuser

✦ Superior Personal Comfort

The main function of an air distribution system is to provide comfort to a building's occupants. The MDC® is an economical solution to maximize personal comfort by allowing smaller zone control. An MDC® diffuser installed in an individual's office gives the occupant the ability to set the temperature for both heating and cooling comfort

✦ Flexibility

The MDC® has the flexibility to operate in applications ranging from office buildings, retail stores, schools, hospitals, and conference centers. Flexibility built into the MDC® allows the diffuser to be applied to a wide range of applications providing superior control and occupant comfort

✦ Interoperability

All MDC® diffusers are native BACnet devices and communicate using MS/TP protocol. These devices can communicate to any BACnet system regardless of system manufacturer giving building owners and operators the freedom to select and change building controls even after the system is installed. Using the METALAIRE® Portal, the MDC® diffusers can be set-up to communicate with Modbus or Johnson Control's N2 protocol. With the addition of a Serial LonTalk adapter, the MDC® can be integrated into a Lon system

✦ Ease of Installation

Installation of the MDC® is quick and easy. In the basic configuration, the MDC® only requires a 24 power connection and the unit will begin operation as a stand alone device. Add a twisted pair connection and you now can communicate over a multitude of building automation systems

✦ Ease of Start-up, Operation, and Trouble Shooting

The MDC® is easy to configure using the HHC hand held control. The HHC uploads all the operation functions for the MDC® operation. Built into each controller are LEDs designed to make trouble shooting easy. Installers and building operators from the floor can view the LEDs indicating normal operation, transferring firmware, auto-detecting baud rate, hardware failure, manual mode, and firmware error. Indicators also show TX transmit and RX receive displays

✦ Economic Alternative to a Conventional VAV System

When looking at the MDC® diffuser, one must consider the cost compared to a conventional system. The initial cost of an MDC® system is comparable to a conventional system when the entire installation, labor and control wiring is considered

Available Models for the METALAIRE® Digital Controller	
Master Diffuser Units	Slave Units
MDC®-1 Surface Mount	MDS-1 Surface Mount
MDC®-6 T-bar Lay-in	MDS-6 T-bar Lay-in

Control Accessories	
MDC® Gateway	Hand Held Remote
MDC®-G	HHC

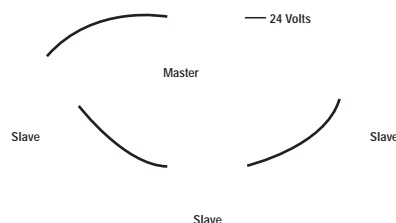
MDC® Stand Alone



Simple Installation
Requires 24 Volt Connection

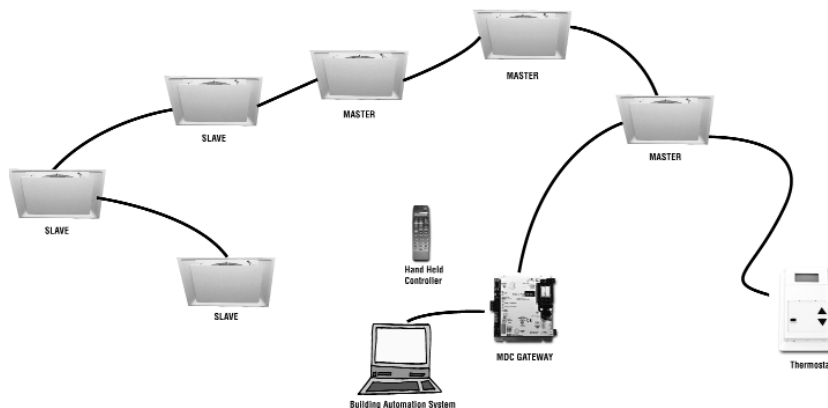
MDC® Master/Slave Units

Master MDC Can Control Up to 3 Slaves

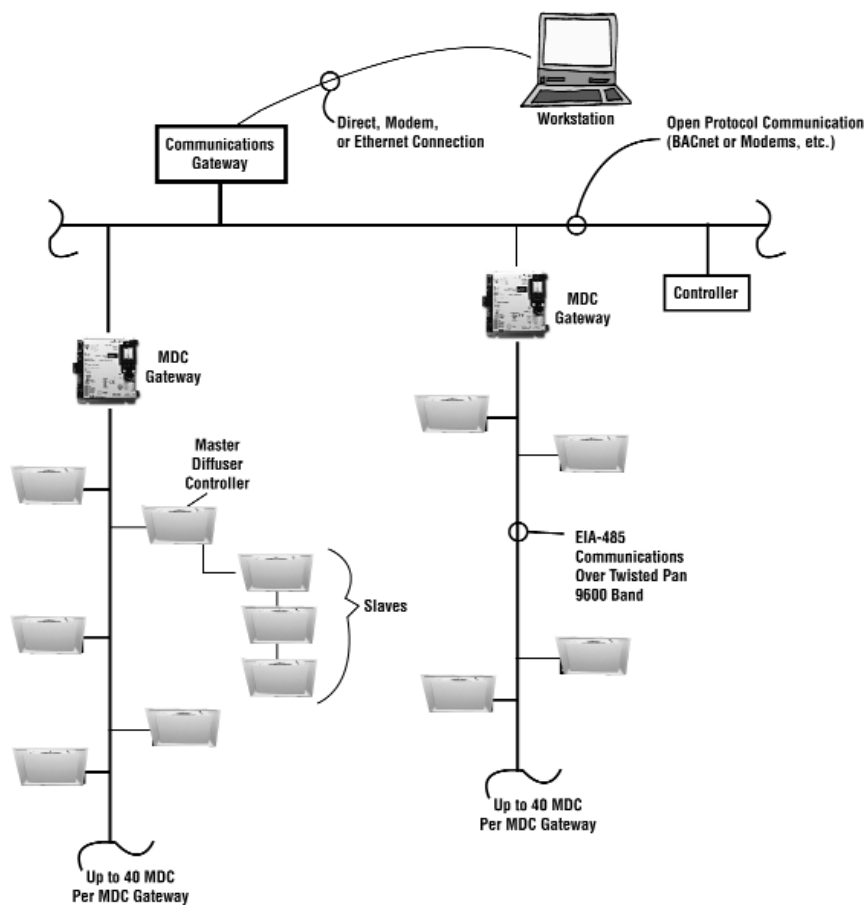


Expands to integrate into BACnet System

Control System Diagram



General Architecture Sketch



LEADING THE INDUSTRY IN PRODUCT LITERATURE

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Quick Select Catalog - Air Distribution Selection Made Easy

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InfoSource Catalog Suite - Complete guide to Air Distribution Selection

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InfoSource Catalog Suite

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- Grilles & Registers Catalog
- Air Terminal Unit Catalog
- Formations Catalog



InfoSource CD

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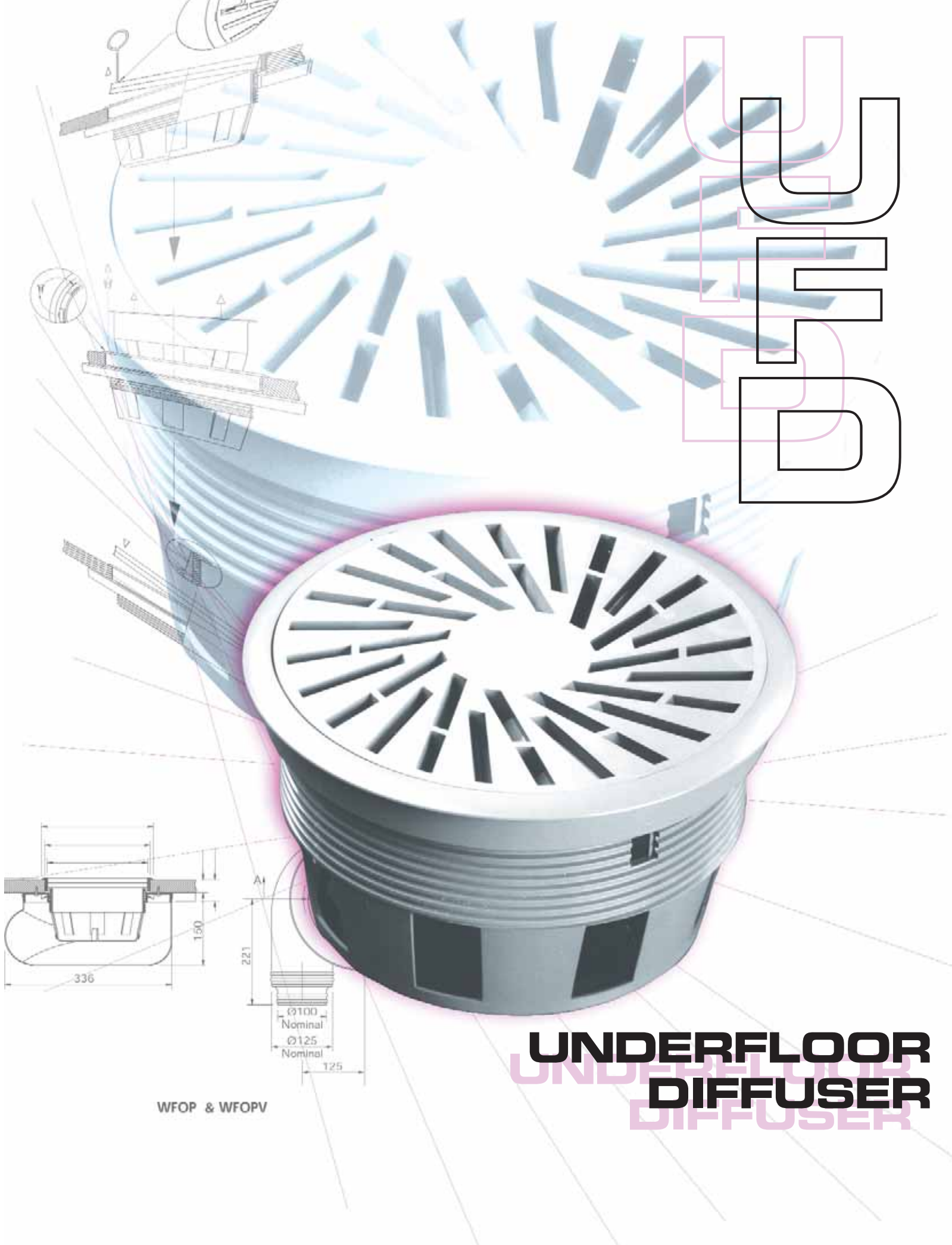


Web Site: www.metalaire.com

METALAIRE leads the industry with a web site that contains all the product literature and performance data needed to design your air distribution system. Our web site includes all our submittals, catalogs, installation manuals, as well as as other valuable information to aid you in air distribution design.



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WFOP & WFOPV

**UNDERFLOOR
DIFFUSER**



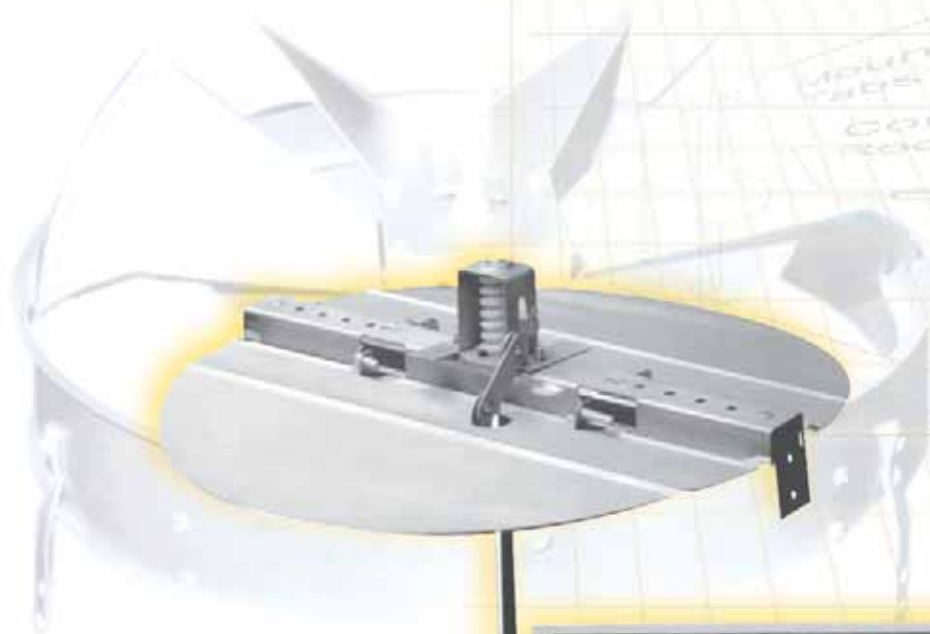
Model WFO

Aircell Polymer Floor Diffuser - Series WFO

- ★ Unique "flip-over" design
- ★ Memory locating peg
- ★ Easy fit locking collar
- ★ Concealed bracket for concrete / slab flooring
- ★ Combined damper / dirt tray with incremental damper positioning



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ACCESSORIES



Model 900D

Round Damper for Series 900 - Aluminum - Model 900D

- ★ For attachment to Model 900
- ★ 2 butterfly style blades for 6" - 12" sizes
- ★ 8 blade radial style for 14" size
- ★ Blades adjusted through diffuser face
- ★ Damper supplied with mounting hardware



Model D3

Radial Opposed Blade Dampers - Steel - Model SD3 / Aluminum - Model D3

- ★ For use in round air diffusers
- ★ Designed to provide full radial volume control resulting in lower than normal pressure losses
- ★ Overlapping blade design insures positive shut-off when required

Aluminum	Steel
D3	SD3



Model G3

Round Straightening Grid - Aluminum - Series G3

- ★ For use with all diffusers
- ★ Designed to provide maximum air flow equalization through use of a blade matrix system, thus ensuring lowest possible pressure losses in drop
- ★ Dampers not available on 24" grid

w/o Damper	w/Damper
G3	GD3



Model BDS

Butterfly Damper - Steel - Model BDS

- ★ Two butterfly style blades
- ★ Blades are adjusted through diffuser face



Model RSD

Radial Shutter Damper - Steel - Model RSD

- ★ Cost effective alternative to butterfly style dampers
- ★ Design permits very precise damper control and does not interfere with diffuser air patterns



Model TR

Square to Round Transition - Aluminum - Model TR

- ★ Square to round transitions slip fit over the square neck or register to permit installation to round or flex-duct
- ★ 2 11/16" overall depth



Model TR DEEP

Square to Round Deep Transition - Aluminum - Model TR Deep

- ★ Square to round transitions slip fit over the square neck or register to permit installation to round or flex-duct
- ★ 4 7/8" overall depth



Model L9

Square/Rectangular Equalizing Grid - Aluminum - Model L9

- ★ Designed to provide uniform airflow in branch ducts
- ★ Pre-tensioned blades adjust individually and may be set at an angle at the branch take-off to provide a rake-off effect



Model D5

Opposed Blade Damper 5000 - Steel - Model D5 / Aluminum - Model D5A

- ★ Opposed blade volume damper for use with all series 5000 and 5500 diffuser models
- ★ Damper operator is accessible at the diffuser face

Steel	Aluminum
D5	D5A



Model D7

Opposed Blade Damper 7000 - Steel - Model D7 / Aluminum - Model D7A

- ★ Opposed blade volume damper for use with all series 7000
- ★ Damper operator is accessible at the diffuser face

Steel	Aluminum
D7	D7A



Model OBD

Opposed Blade Damper for Grilles - Steel - Model OBD / Aluminum - Model OBDA

- ★ Blades set in a U-channel frame
- ★ Opposed blades on 1" centers
- ★ Screwdriver slot operator

Steel	Aluminum
OBD	OBDA



Model OBDD

Dampers for Duct Mounting - Extruded Aluminum - Model OBDD

- ★ Removable key operator for thru-duct adjustments
- ★ Opposed blades on 1" centers



Model PF

Sidewall Mounted Plaster Frame - Model PF

- ✦ Provides a uniform opening in plaster ceilings or sidewall to accommodate grilles and registers
- ✦ Are available for all ceiling and sidewall grilles and registers



Model TBPF

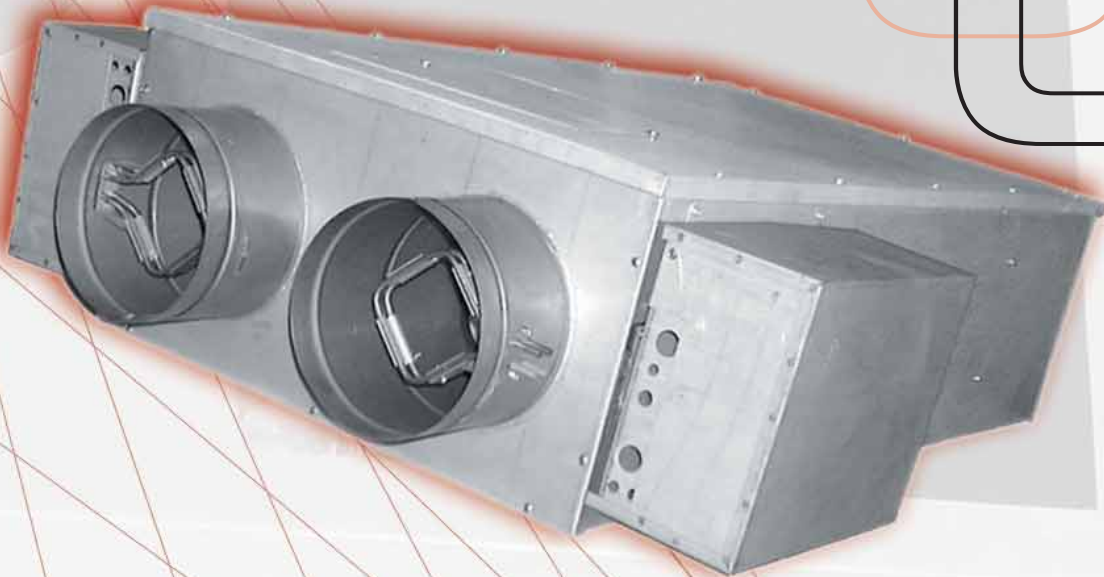
T-bar Plaster Frame - Aluminum/Steel - Series TBPF

- ✦ Permits installation of a T-bar frame style ceiling diffuser into plaster or gypsum type ceiling

Aluminum	Steel
TBPF	STBPF



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AIR TERMINAL UNITS
AIR TERMINAL UNITS

TH-500



Series TH-500

Series TH-500 - High Performance - Single Duct Air Terminal Units

- ★ Series TH-500 Air Terminals are designed to regulate the flow of conditioned air in single duct air distribution systems. They are available in a wide range of standard control sequences and work equally well in constant volume and variable volume systems
- ★ Series TH-500 Air Terminals can be specified with hot water coils, electric heat, sound attenuators, and other optional accessories
- ★ Series TH-500 Air Terminals feature a low leakage single blade damper. The TH series is available with pneumatic, electric, analog electric, and DDC (by others) factory mounted controls
- ★ Series TH-500 Air Terminals are available for both pressure independent and pressure dependent applications
- ★ Series TH-500 Air Terminals are recommended for use in duct systems with static pressures up to 3" water gauge

TL-500



Series TL-500

Series TL-500 - Low Profile - Single Duct Air Terminal Units

- ★ Series TL-500 Air Terminals are designed to regulate the flow of conditioned air in single duct air distribution systems. They are available in a wide range of standard control sequences and work equally well in constant volume and variable volume systems. The maximum height of the TL series is 12 1/2"
- ★ Series TL-500 Air Terminals can be specified with hot water coils, electric heat, sound attenuators, and other optional accessories
- ★ Series TL-500 Air Terminals feature a low leakage single blade damper
- ★ Series TL-500 is also available with pneumatic, electric, analog electric, and DDC (by others) factory mounted controls
- ★ Series TL-500 Air Terminals are available for both system pressure independent and system pressure dependent applications

FCI-600



Series FCI-600

Series FCI-600 - Constant Volume Air Terminal Units

- ★ Series FCI-600 fan-powered terminal units are designed to provide superior comfort control to zones with both heating and cooling requirements. The fan in a constant volume (or series) fan powered terminal, runs continuously during occupied hours. FCI is available with an optional ECM motor for improved energy efficiency and control
- ★ Series FCI-600 provides cooling through the primary air valve. The primary air valve controls the volume of air that is discharged into the terminal unit. The cooled air is delivered to the space through the terminal's fan. When heating is required, the Series FCI-600 initially provides plenum air that is drawn through the induction inlet
- ★ Series FCI-600 is available with a wide range of control options and accessories to meet your design requirements; whether they be for factory mounted direct digital controls, pneumatic, or analog applications
- ★ Series FCI-600 is available in 6 casing sizes with a wide range of primary inlet sizes offering the flexibility to meet both your capacity and sound requirements

FCL-600



Series FCL-600

Series FCL-600 - Low Profile Constant Volume Air Terminal Units

- ★ Series FCL-600 low Profile fan-powered terminal units are designed to provide superior comfort control in applications with restricted heights. The FCL-600 series can also be selected for projects with limited heights in the ceiling plenum.
- ★ The FCL is designed to be applied in zones with both heating and cooling requirements. The fan in a constant volume (or series) fan powered terminal, runs continuously during occupied hours.
- ★ Series FCL-600 provides cooling through the primary air valve. The primary air valve controls the volume of air that is discharged into the terminal unit. The cooled air is delivered to the space through the terminal's fan. When heating is required, the Series FCL-600 initially provides plenum air that is drawn through the induction inlet.
- ★ Series FCL-600 is available with a wide range of control options and accessories to meet your design requirements; whether they be for factory mounted direct digital controls, pneumatic, or analog applications.
- ★ Series FCL-600 is available in 2 casing sizes and offers the flexibility to meet both your capacity and sound requirements.

ATU



Series FVI-500

Series FVI-500 - Parallel Fan Powered Air Terminal Units

- ★ Series FVI-500 fan-powered terminal units are designed to provide superior comfort control to zones with both heating and cooling requirements. The fan in a variable volume (or parallel) fan powered terminal, runs only upon requirements for heat
- ★ Series FVI-500 provides variable volume cooling through the primary air valve. The primary air valve controls the volume of cooled air that is discharged into the space. In a parallel fan-powered terminal unit, the primary air does not pass through the fan. When heating is required, the Series FVI-500 initially provides plenum air that is drawn through the induction inlet
- ★ Series FVI-500 is available with a wide range of control options and accessories to meet your design requirements; whether they be for factory mounted direct digital controls, pneumatic, or analog applications
- ★ Series FVI-500 is available in 7 casing sizes with a wide range of primary inlet sizes offering the flexibility to meet both your capacity and sound requirements



Series DH-500

Series DH-500 - High Performance - Dual Duct Air Terminal Units

- ★ Series DH-500 (patent pending) High Performance Dual Duct Air Terminals are designed to regulate the flow of conditioned air in dual duct air distribution systems. In a dual duct system, both heated and cooled air are provided to the air terminal and mixed to provide the desired discharge temperature. The DH-500 has been engineered to provide a 1:30* mixing ratio, the highest in the industry. They are available with a wide range of standard control sequences
- ★ Series DH-500 Air Terminals feature a low leakage single blade damper in the heating and cooling inlets
- ★ The DH series is available with pneumatic, electric, analog electronic, and DDC (by others) factory mounted controls
- ★ DH-500 air terminals are available for both system pressure independent and system pressure dependent applications
- ★ Series DH-500 Air Terminals are recommended for use in duct systems with static pressures up to 3" water gauge

* Series DH-500 is Patent Pending

Series DD-500

Series Dual Duct Air Terminal Units

- ★ Series DD-500 Dual Duct air terminals are designed to regulate the flow of conditioned air in dual duct air distribution systems. In a dual duct system, both heated and cooled air are provided to the air terminal and mixed in downstream duct work (by others) to provide the desired discharge temperature. The DD-500 is available with a wide range of standard control sequences
- ★ Series DD-500 Air Terminals feature a low leakage single blade damper. The DD-500 series is available with pneumatic, electric, analog electronic, and DDC (by others) factory mounted controls. DD-500 air terminals are available for both system pressure independent and system pressure dependent applications
- ★ Series DD-500 air terminals are recommended for use in duct systems with static pressures up to 3" water gauge



Series SR-500

Series SR-500 - Square Retrofit Air Terminal

- ★ The METALAIR® Series SR-500 is a retrofit product designed to fit into existing low pressure square or rectangular duct systems
- ★ The height of the installation plate varies with the duct height
- ★ A flow sensor access panel is mounted in the installation plate in front of the damper blades
- ★ Damper position can be controlled by any pressure dependent or pressure independent pneumatic, electric, or electronic control sequence available for the Series SR TH-500 Single Duct Air Terminal
- ★ Series SR Retrofit dampers are constructed of 20 gauge zinc coated steel
- ★ Series SR-500 units are intended for VAV applications in low pressure/low velocity applications, but may be used in duct systems with static pressure up to 4" water gauge and at a maximum rated velocity of 3000 fpm

RA-500



Series RA-500

Series RA-500 - Retrofit Terminal

- ✦ Series RA retrofit assemblies are customized retrofit valves designed to slip into existing mechanically regulated single or dual duct terminals to convert to variable volume operation.
- ✦ Units allow the conversion of existing constant volume systems to a more energy efficient, variable volume system.
- ✦ RA assemblies are currently available to fit most of the competitive terminals manufactured from the 60's to 80's.
- ✦ The RA valves can be installed, in most applications, without disrupting existing ductwork. Units are installed by removing existing volume regulators and inserting the RA valve.
- ✦ One or two valves in a single panel may be controlled by a single actuator
- ✦ Control sequences for the RA-500 are available to convert mechanically regulated constant single or dual duct air terminals into pneumatic VAV single duct or dual duct.

RT-500



Series RT-500

Series RT-500 - Round Retrofit Air Terminal

- ✦ Series RT-500 Retrofit Air Terminals are designed to regulate the flow of conditioned air in single or dual duct air distribution systems and are also used to provide positive or negative pressures in laboratory flow hood applications
- ✦ Series RT-500 Retrofit Air Terminals are primarily used to convert mechanically regulated constant volume single or dual duct air terminals to more efficient variable volume air terminals without disrupting total system operation
- ✦ Series RT-500 is ready installed into existing duct-work in front of an old air terminal
- ✦ This series features the the proven, low leakage Series TH-500 Air Terminal Damper
- ✦ Control components are shipped piped and wired
- ✦ Control linkage design allows the damper to be easily field repositioned 90° without the use of tools
- ✦ Constructed of 20 gauge zinc coated steel
- ✦ Recommend for use in duct systems with static pressures up to 3" water gauge

BP-500



Series BP-500

Series BP-500 - Bypass Terminal

- ✦ Series BP-500 Bypass Air Terminals are designed to achieve VAV delivery of conditioned air to a room in single duct, constant volume air distribution systems
- ✦ Series BP-500 Bypass Air Terminals are available with a variety of standard control sequences
- ✦ Series BP-500 Bypass Air Terminals use a primary air damper working in concert with a bypass port damper
- ✦ Construction is of galvanized steel
- ✦ Units are available for system pressure dependent and system pressure independent applications

ATU

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Web Site: www.metalaire.com

METALAIRES leads the industry with a web site that contains all the product literature and performance data needed to design your air distribution system. Our web site includes all our submittals, catalogs, installation manuals, as well as as other valuable information to aid you in air distribution design.



METALAIRES
EXPERIENCE AIRE SUPERIORITY.



SERIES TH-500

High Performance-Single Duct Air Terminal Units

Series TH-500 Air Terminals are designed to regulate the flow of conditioned air in single duct air distribution systems. They are available in a wide range of standard control sequences and work equally well in constant volume and variable volume systems.

Series TH-500 Air Terminals can be specified with hot water coils, electric heat, sound attenuators, and other optional accessories.

Series TH-500 Air Terminals feature a low leakage single blade damper. The **TH series** is available with pneumatic, electric, analog electric, and DDC (by others) factory mounted controls.

Series TH-500 Air Terminals are available for both pressure independent and pressure dependent applications.

Series TH-500 Air Terminals are recommended for use in duct systems with static pressures up to 3" water gauge.

The inlet tube for the TH-500 includes a bead that strengthens the tube and provides recess for flex duct straps

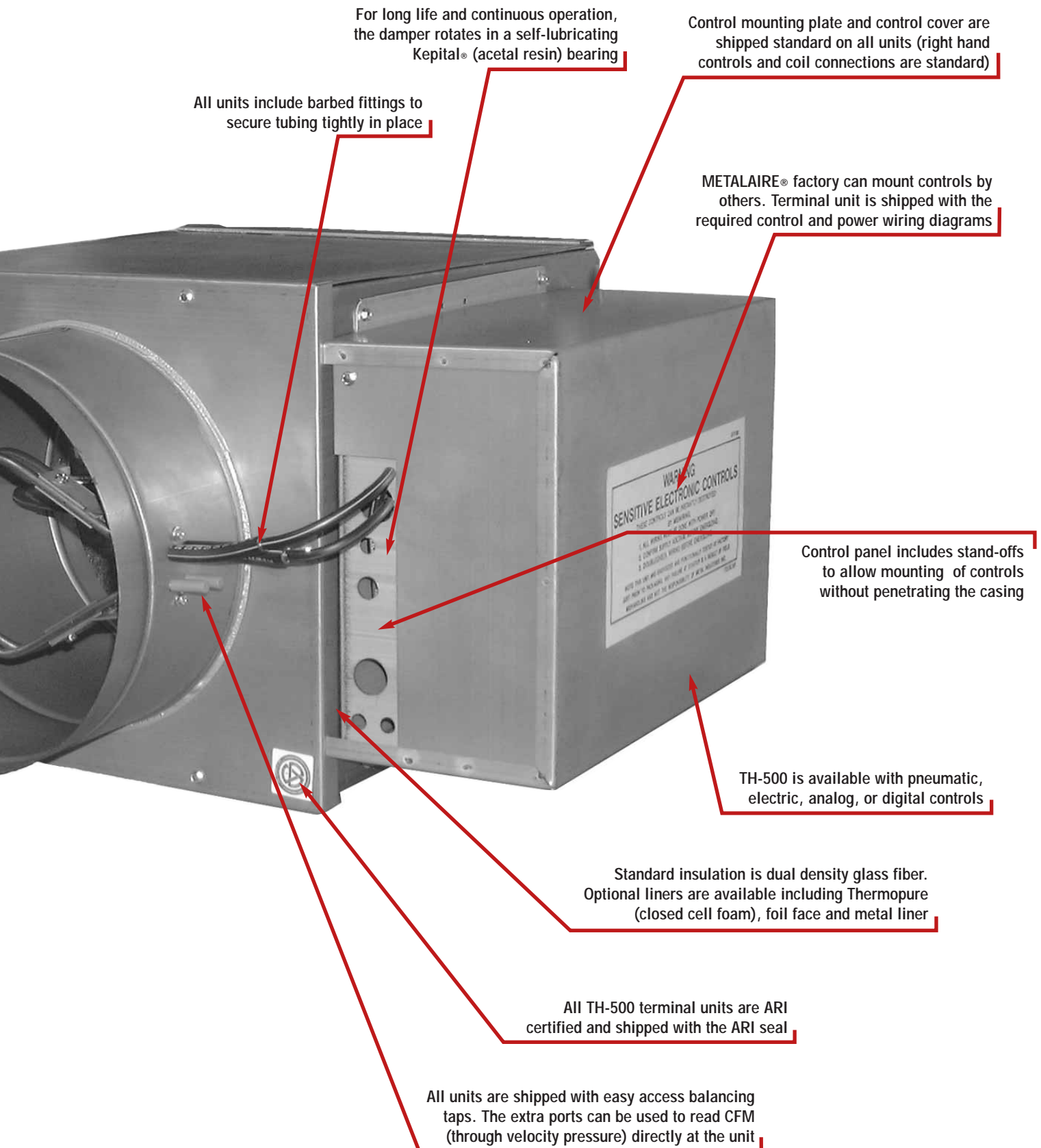
For set-up and balancing purposes, all units are shipped with a convenient balancing chart located on the outside of the terminal for conversion from velocity pressure to CFM

Units size 6 through 16 are constructed with a seamless butt weld to minimize leakage and prevent the damper from binding

Multiquadrant Averaging Flow Sensor provides an accurate flow signal without requiring an immediate upstream straight duct connection (Shipped standard on all units)



ATU - Air Terminal Units





SERIES TL-500

Low Profile-Single Duct Air Terminal Units

Series TL-500 Air Terminals are designed to regulate the flow of conditioned air in single duct air distribution systems. They are available in a wide range of standard control sequences and work equally well in constant volume and variable volume systems. The maximum height of the TL series is 12 1/2".

Series TL-500 Air Terminals can be specified with hot water coils, electric heat, sound attenuators, and other optional accessories.

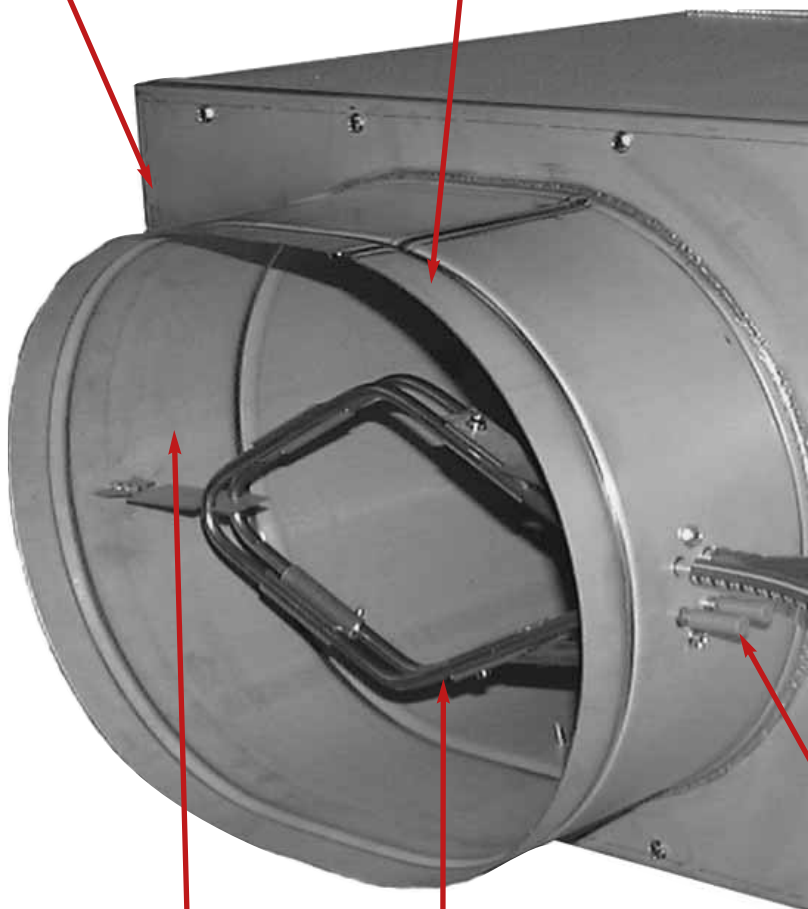
Series TL-500 Air Terminals feature a low leakage single blade damper.

Series TL-500 is also available with pneumatic, electric, analog electric, and DDC (by others) factory mounted controls.

Series TL-500 Air Terminals are available for both system pressure independent and system pressure dependent applications.

The inlet tube for the TL-500 includes a bead that strengthens the tube and serves as a stop to keep attached flex duct from slipping

For set-up and balancing purposes, all units are shipped with a convenient balancing chart located on the outside of the terminal for conversion from velocity pressure to CFM

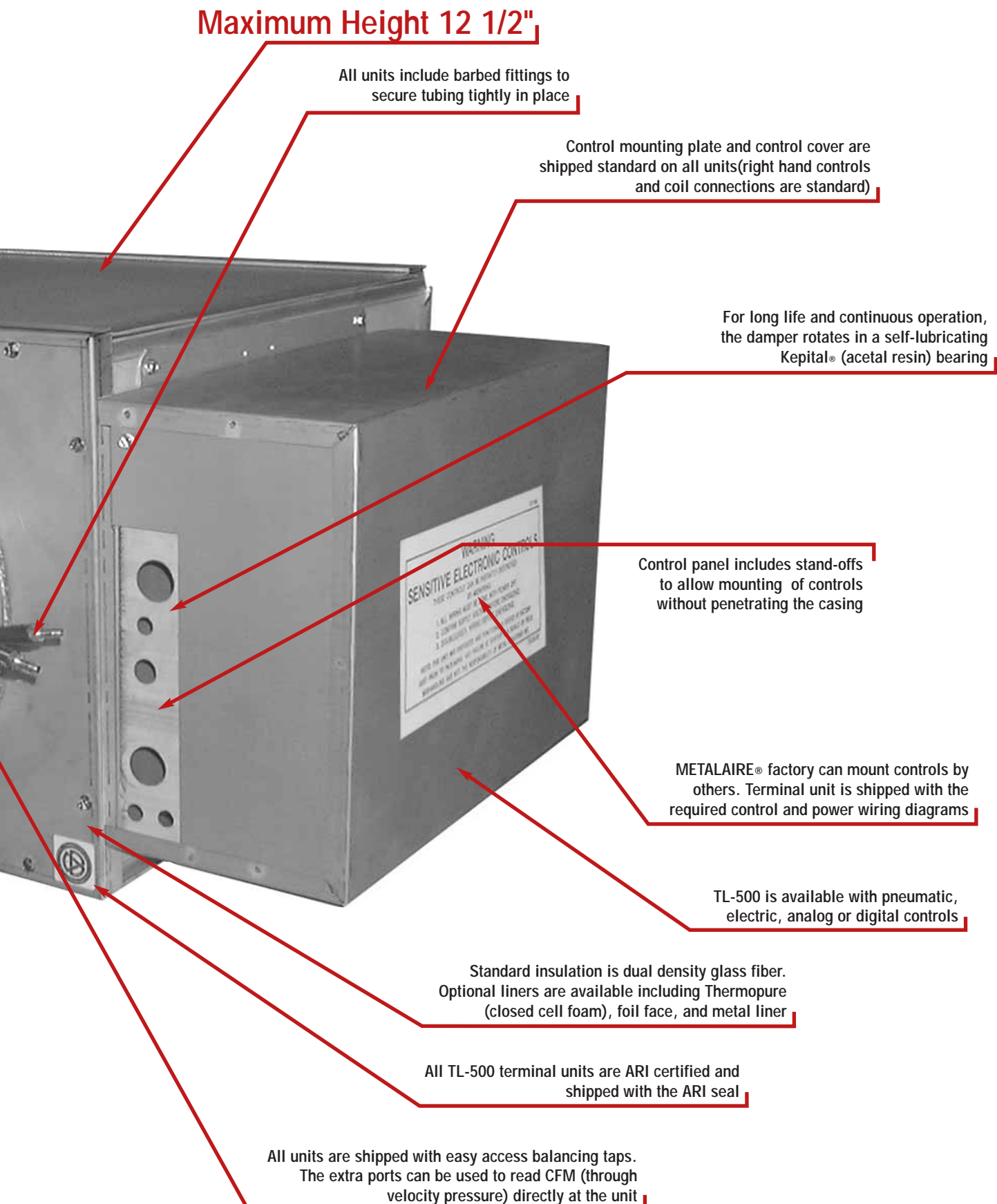


Units are constructed with a seamless butt weld to minimize leakage and prevent the damper from binding

Multiquadrant Averaging Flow Sensor provides an accurate flow signal without requiring an immediate upstream straight duct connection (Shipped standard on all units)



ATU - Air Terminal Units



SERIES FCI-600

Constant Volume Air Terminal Units

Series FCI-600 fan-powered terminal units are designed to provide superior comfort control to zones with both heating and cooling requirements. The fan in a constant volume (or series) fan powered terminal, runs continuously during occupied hours. FCI is available with an optional ECM motor for improved energy efficiency and control.

Series FCI-600 provides cooling through the primary air valve. The primary air valve controls the volume of air that is discharged into the terminal unit. The cooled air is delivered to the space through the terminal's fan. When heating is required, the Series FCI-600 initially provides plenum air that is drawn through the induction inlet.

Series FCI-600 is available with a wide range of control options and accessories to meet your design requirements; whether they be for factory mounted direct digital controls, pneumatic, or analog applications.

Series FCI-600 is available in 6 casing sizes with a wide range of primary inlet sizes offering the flexibility to meet both your capacity and sound requirements.

All units are shipped with easy access balancing taps. The extra ports can be used to read CFM (through velocity pressure) directly at the unit

All units include an SCR solid state fan speed controller. Motors are designed to work in conjunction with the SCR controller

Multiquadrant Averaging Flow Sensor provides an accurate flow signal without requiring an immediate upstream straight duct connection (Shipped standard on all units)

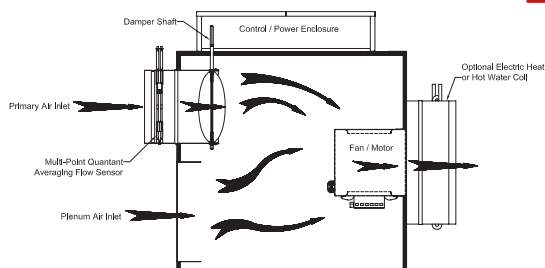
All electrical wiring is connected using quick-disconnect bulkhead fittings allowing easy servicing of electrical components

Control panel includes stand-offs to allow mounting of controls without penetrating the casing

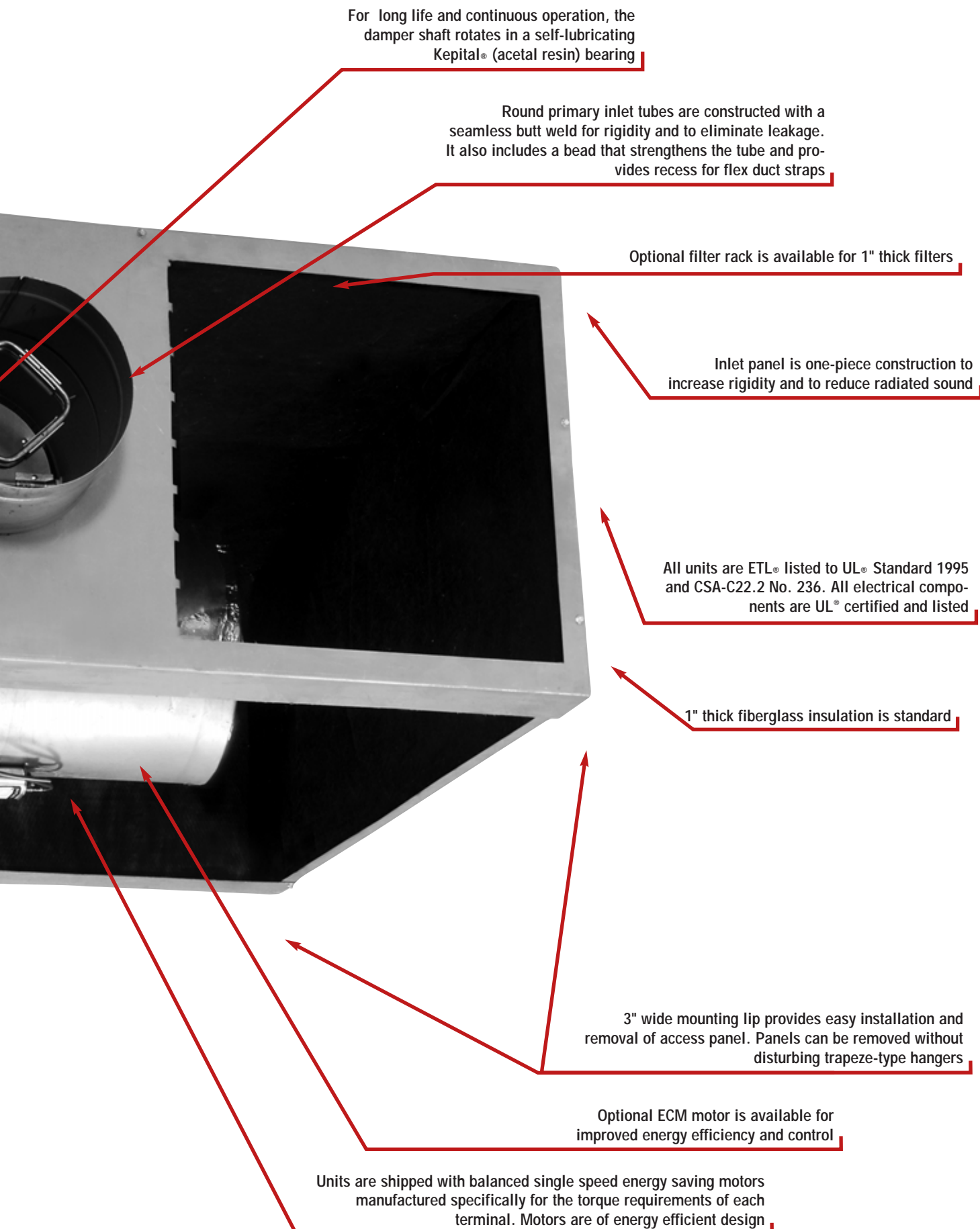
Optional electronic anti-reversing rotation device is available to prevent backwards rotation of fan

Air Terminal Units

ATU



ATU - Air Terminal Units



For long life and continuous operation, the damper shaft rotates in a self-lubricating Kepital® (acetal resin) bearing

Round primary inlet tubes are constructed with a seamless butt weld for rigidity and to eliminate leakage. It also includes a bead that strengthens the tube and provides recess for flex duct straps

Optional filter rack is available for 1" thick filters

Inlet panel is one-piece construction to increase rigidity and to reduce radiated sound

All units are ETL® listed to UL® Standard 1995 and CSA-C22.2 No. 236. All electrical components are UL® certified and listed

1" thick fiberglass insulation is standard

3" wide mounting lip provides easy installation and removal of access panel. Panels can be removed without disturbing trapeze-type hangers

Optional ECM motor is available for improved energy efficiency and control

Units are shipped with balanced single speed energy saving motors manufactured specifically for the torque requirements of each terminal. Motors are of energy efficient design

For more product information visit us at www.metalair.com



SERIES FCL-600

Low Profile Constant Volume Air Terminal Units

Series FCL-600 low Profile fan-powered terminal units are designed to provide superior comfort control in applications with restricted heights. The FCL-600 series can also be selected for projects with limited heights in the ceiling plenum. These units are an excellent selection for underfloor applications.

The FCL-600 is designed to be applied in zones with both heating and cooling requirements. The fan in a constant volume (or series) fan powered terminal, runs continuously during occupied hours.

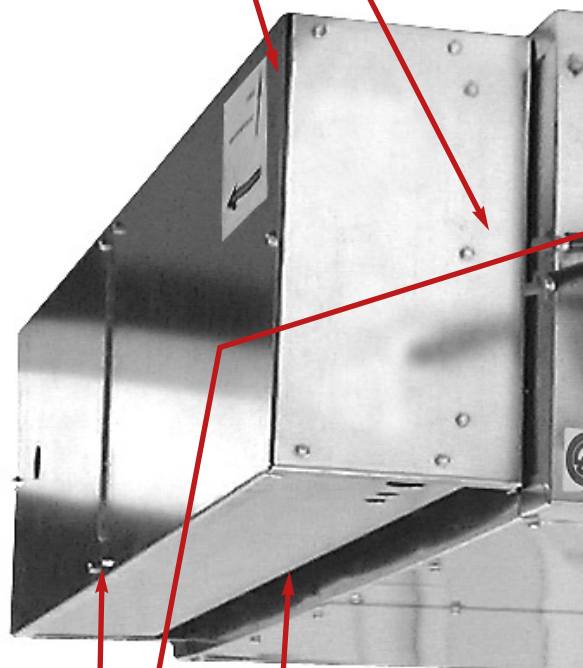
Series FCL-600 provides cooling through the primary air valve. The primary air valve controls the volume of air that is discharged into the terminal unit. The cooled air is delivered to the space through the terminal's fan. When heating is required, the Series FCL-600 initially provides plenum air that is drawn through the induction inlet.

Series FCL-600 is available with a wide range of control options and accessories to meet your design requirements; whether they be for factory mounted direct digital controls, pneumatic, or analog applications.

Series FCL-600 is available in 2 casing sizes and offers the flexibility to meet both your capacity and sound requirements.

All units are shipped with easy access balancing taps. The extra ports can be used to read CFM (through velocity pressure) directly at the unit

All units include an SCR solid state fan speed controller. Motors are designed to work in conjunction with the SCR controller



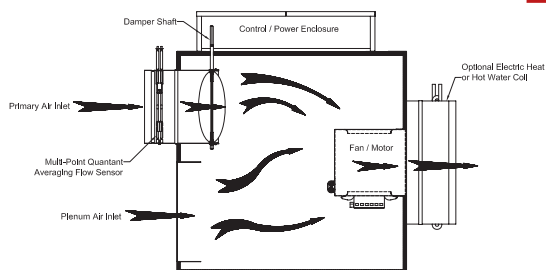
Multiquadrant Averaging Flow Sensor provides an accurate flow signal without requiring an immediate upstream straight duct connection (Shipped standard on all units)

All electrical wiring is connected using quick-disconnect bulkhead fittings allowing easy servicing of electrical components

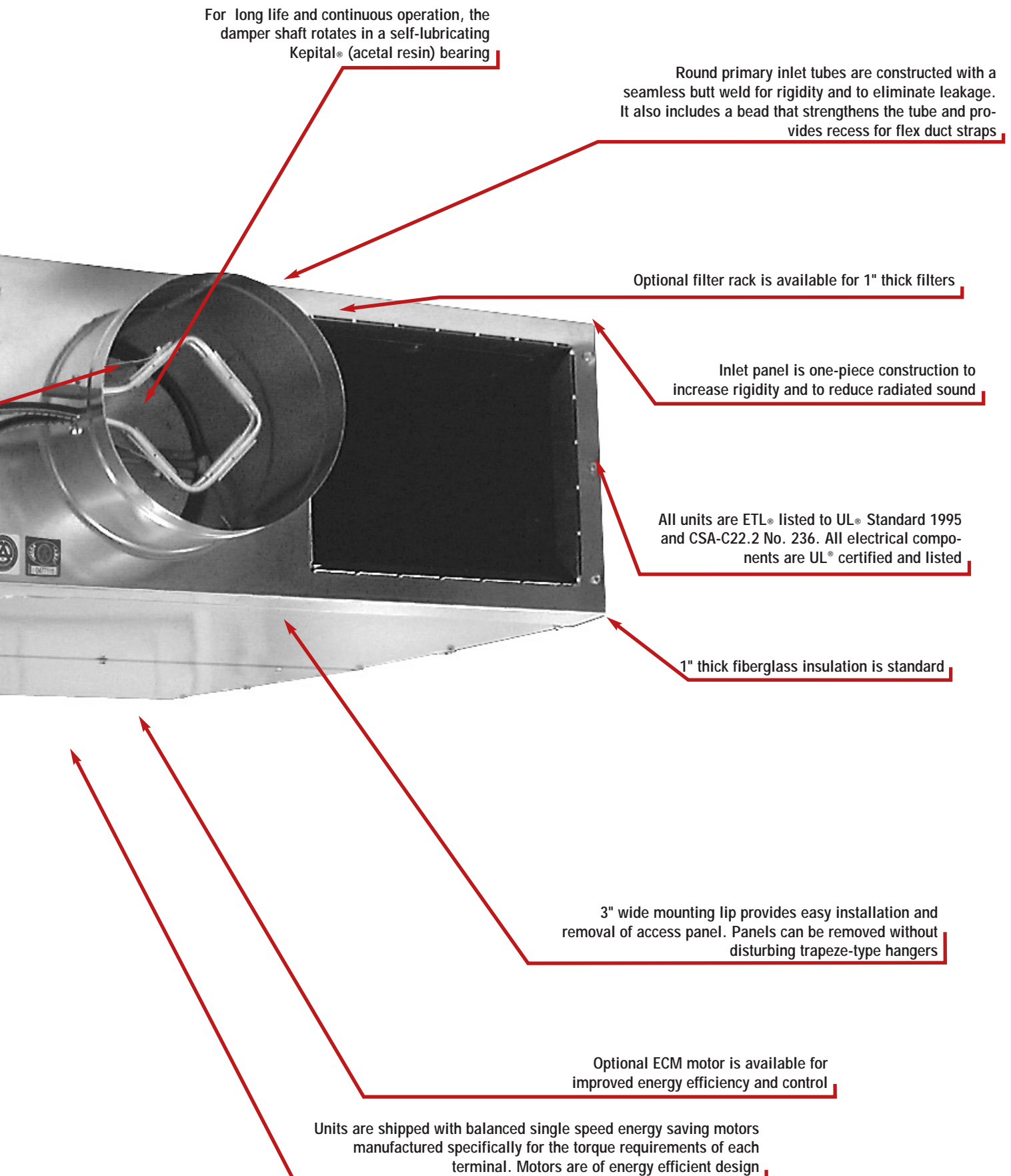
Control panel includes stand-offs to allow mounting of controls without penetrating the casing

Air Terminal Units

ATU



ATU - Air Terminal Units



SERIES FVI-500

Parallel Fan Powered Terminal Units

Series FVI-500 fan-powered terminal units are designed to provide superior comfort control to zones with both heating and cooling requirements. The fan in a variable volume (or parallel) fan powered terminal, runs only upon requirements for heat.

Series FVI-500 provides variable volume cooling through the primary air valve. The primary air valve controls the volume of cooled air that is discharged into the space. In a parallel fan-powered terminal unit, the primary air does not pass through the fan. When heating is required, the **Series FVI-500** initially provides plenum air that is drawn through the induction inlet.

Series FVI-500 is available with a wide range of control options and accessories to meet your design requirements; whether they be for factory mounted direct digital controls, pneumatic, or analog applications.

Series FVI-500 is available in 7 casing sizes with a wide range of primary inlet sizes offering the flexibility to meet both your capacity and sound requirements.

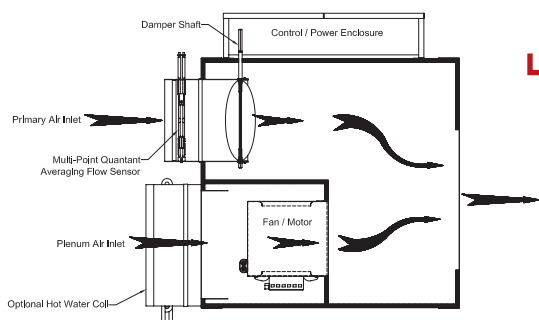
Multiquadrant Averaging Flow Sensor provides an accurate flow signal without requiring an immediate upstream straight duct connection (Shipped standard on all units)

All units include an SCR solid state fan speed controller. Motors are designed to work in conjunction with the SCR controller

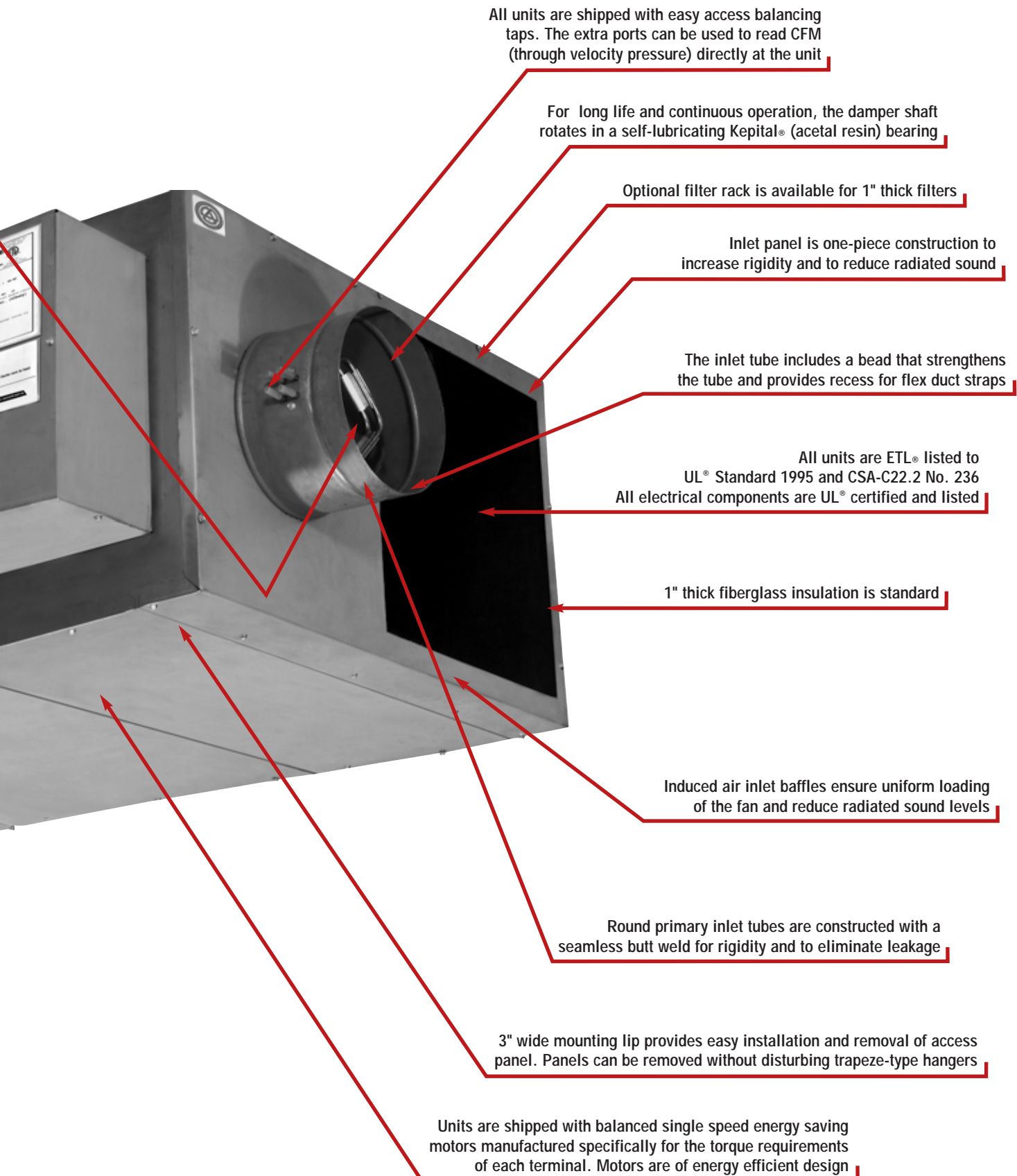
All electrical wiring is connected using quick-disconnect bulkhead fittings allowing easy servicing of electrical components

Control panel includes stand-offs to allow mounting of controls without penetrating the casing

18 gauge fan mounting bracket is designed to allow easy removal of fan assembly for servicing



ATU - Air Terminal Units



SERIES DD-500

Dual Duct Air Terminal Units

Series DD-500 Dual Duct air terminals are designed to regulate the flow of conditioned air in dual duct air distribution systems. In a dual duct system, both heated and cooled air are provided to the air terminal and mixed to provide the desired discharge temperature. The DD-500 is available with a wide range of standard control sequences.

Series DD-500 Air Terminals feature a low leakage single blade damper. The DD-500 series is available with pneumatic, electric, analog electronic, and DDC (by others) factory mounted controls. DD-500 air terminals are available for both system pressure independent and system pressure dependent applications.

Series DD-500 air terminals are recommended for use in duct systems with static pressures up to 3" water gauge.

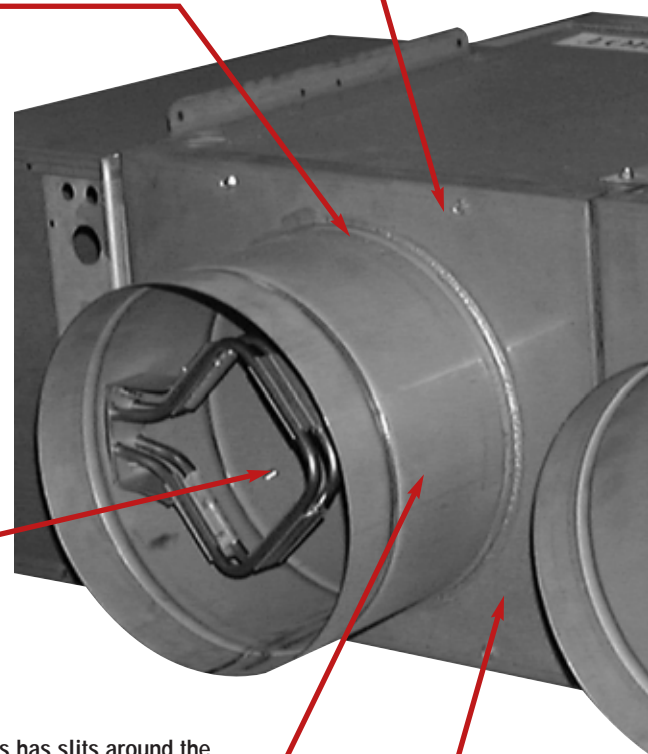
Units inlet tubes are constructed with a seamless butt weld to minimize leakage and prevent the damper from binding

The inlet tubes are free of obstructions, including stops, allowing the damper to rotate 360 degrees within the inlet tube

Multiquadrant Averaging Flow Sensor provides an accurate flow signal without the requirement of a straight duct connection immediately upstream (Shipped standard on all units).

The DD-500 damper gaskets has slits around the perimeter to prevent a low frequency vibration and corresponding noise at near shut-off

Standard insulation is dual density glass fiber. Optional liners are available including Thermopure (closed cell foam), foil face, and metal liner



ATU - Air Terminal Units

All DD-500 terminal units are ARI certified and shipped with the ARI seal

For set-up and balancing purposes, all units are shipped with a convenient balancing chart located on the outside of the terminal for conversion from velocity pressure to CFM

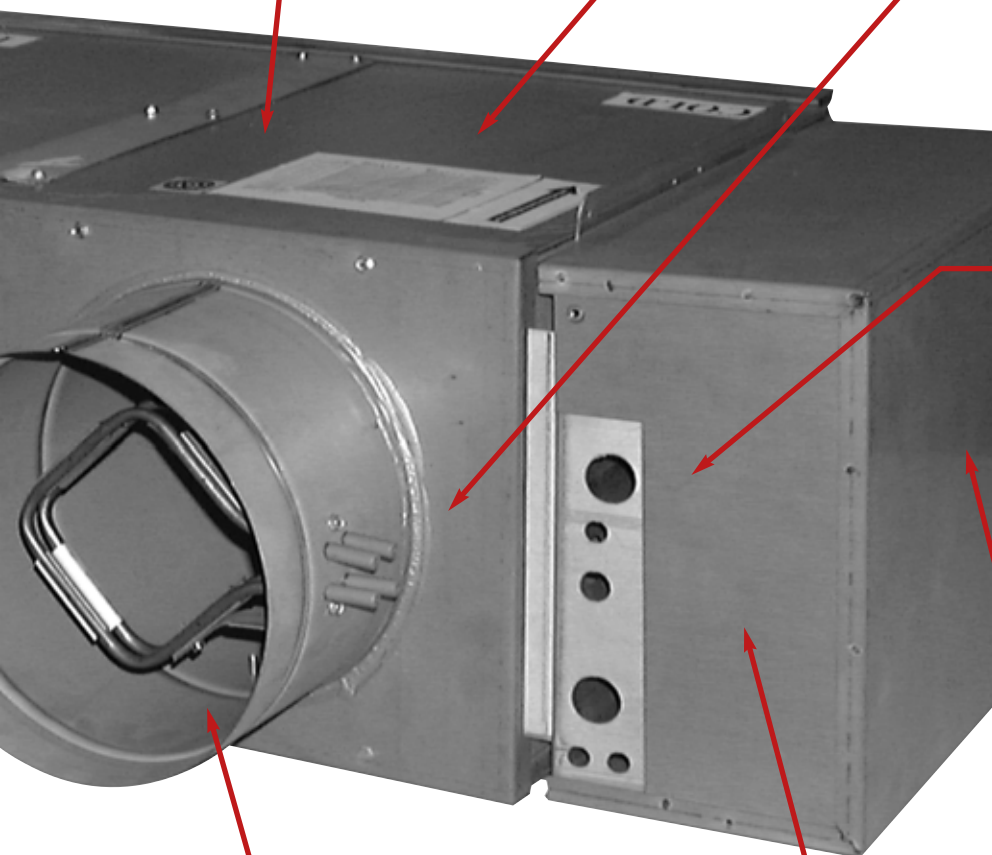
All units are shipped with easy access balancing taps. The extra ports can be used to read CFM (through velocity pressure) directly at the unit

Control panel includes stand-offs to allow mounting of controls without penetrating the casing

DD-500 is available with pneumatic electric, analog or digital controls. METALAIRE® factory mounts controls by others. This program ships each terminal unit with the required control and power wiring diagrams

For long life and continuous operation, the damper rotates in a self-lubricating Kepital® (acetal resin) bearing. Control mounting plate is shipped standard on all units. Control cover is provided as standard

The inlet tubes for the DD-500 includes a bead that strengthens the tube and serves as a stop to keep attached flex duct from slipping





SERIES DH-500

(Patent Pending)

High Performance-Dual Duct Air Terminal Units

Series DH-500 (patent pending) High Performance Dual Duct Air Terminals are designed to regulate the flow of conditioned air in dual duct air distribution systems. In a dual duct system, both heated and cooled air are provided to the air terminal and mixed to provide the desired discharge temperature. The DH-500 has been engineered to provide a 1:30* mixing ratio, the highest in the industry. They are available with a wide range of standard control sequences.

Series DH-500 Air Terminals feature a low leakage single blade damper in the heating and cooling inlets.

The DH series is available with pneumatic, electric, analog electronic, and DDC (by others) factory mounted controls.

DH-500 Air Terminals are available for both system pressure independent and system pressure dependent applications.

Series DH-500 Air Terminals are recommended for use in duct systems with static pressures up to 3" water gauge

**Mixing ratio is the ratio between a 1°F temperature difference in the discharge air stream and the difference between the hot deck and cold deck temperature*

#Series DH-500 is Patent Pending

The inlet tubes are free of obstructions, including stops, allowing the damper to rotate 360° within the inlet tube

The inlet tubes for the DH-500 includes a bead that strengthens the tube and serves as a stop to keep attached flex duct from slipping

For set-up and balancing purposes, all units are shipped with a convenient balancing chart located on the outside of the terminal for conversion from velocity pressure to CFM

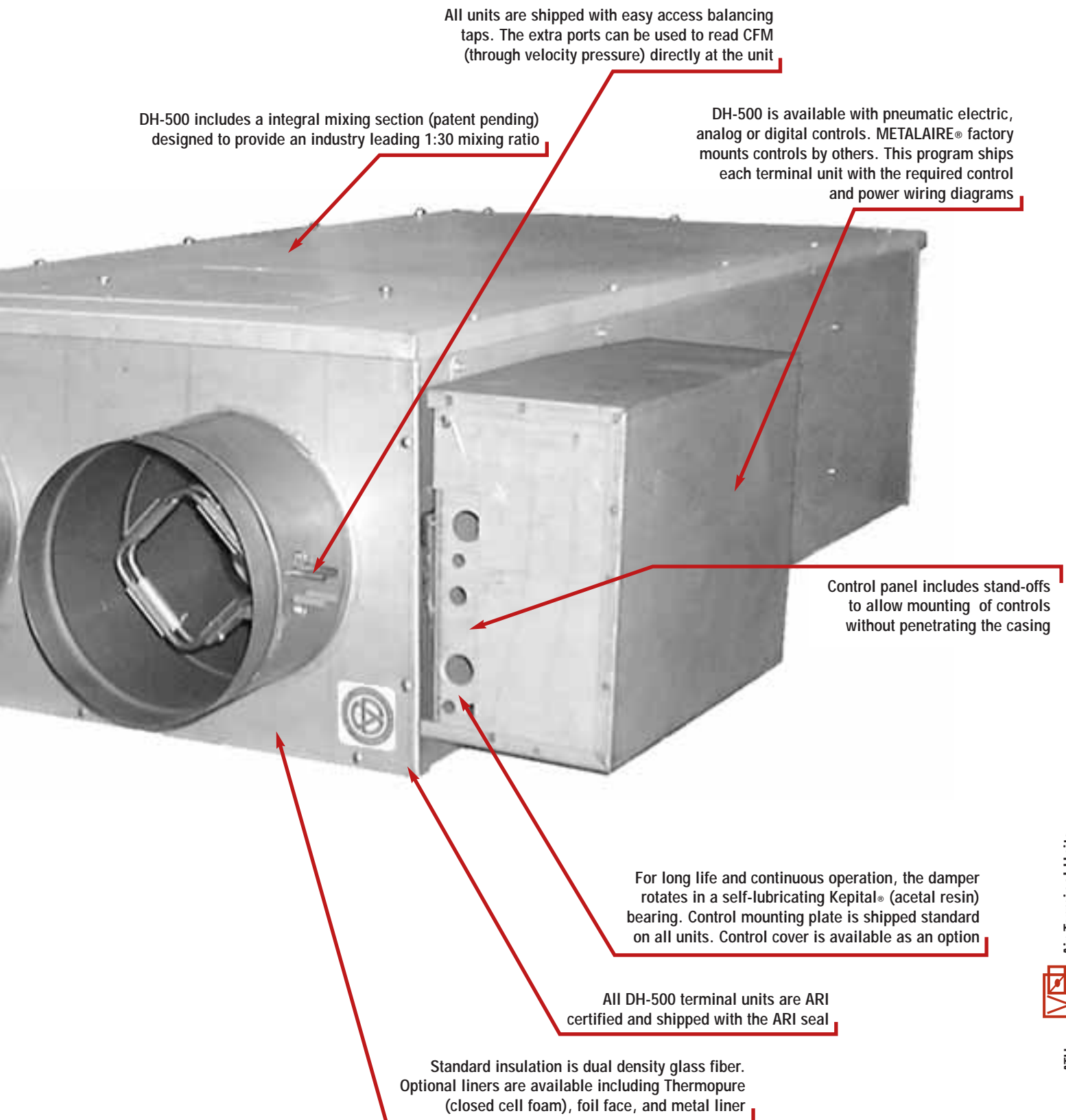
The DH-500 damper gaskets has slits around the perimeter to prevent a low frequency vibration and corresponding noise at near shut-off

Units inlet tubes are constructed with a seamless butt weld to minimize leakage and prevent the damper from binding

Multiquadrant Averaging Flow Sensor provides an accurate flow signal without the requirement of a straight duct connection immediately upstream (Shipped standard on all units).



ATU - Air Terminal Units



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